				D	S1 EPARTMENT DIVISION O		IRAL RESC				AMEND	FOF			
		А	PPLICATION FOR	PERMIT	TO DRILL					1. WELL NAME and NU		4D-CMHZ			
2. TYPE C	F WORK	DRILL NEW WELL	. (iiii) REENTER P	&A WELL	DEEPEN	WELL (3. FIELD OR WILDCAT	NATURAL I	BUTTES			
4. TYPE O	F WELL			oed Methane	•					5. UNIT or COMMUNITIZATION AGREEMENT NAME MAVERICK					
6. NAME	OF OPERATOR			& GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515					
8. ADDRE	SS OF OPERAT	OR	P.O. Box 173779,	Denver CO	80217					9. OPERATOR E-MAIL julie.jacobson@anadarko.com					
	RAL LEASE NUM L, INDIAN, OR S		T.O. Box Troffe,	11. MINER	RAL OWNERS	450	07175) eee/	12. SURFACE OWNERS	SHIP					
13. NAME	OF SURFACE	UTÚ0581 OWNER (if box 12	= 'fee')	FEDERAL INDIAN STATE FEE						FEDERAL INC	PHONE (STATE		E 💭	
		ACE OWNER (if bo								16. SURFACE OWNER	E-MAIL	(if box 12	= 'fee')		
	N ALLOTTEE O	R TRIBE NAME			ND TO COMM E FORMATIO				 0	19. SLANT VERTICAL DIR	ECTIONA	L H	DRIZONT.	AL 📵	
20. LOC	ATION OF WEL	<u> </u>	F	OOTAGES		QTR-	-QTR	SEC1	TION	TOWNSHIP	RA	NGE	МЕ	RIDIAN	
LOCATIO	ON AT SURFAC	E	520 F	NL 1836 FI	EL	NWI	NE	30)	9.0 S	21.	.0 E		S	
Top of U	Ippermost Pro	ducing Zone	520 F	NL 1836 FI	EL	IWM	NE	30)	9.0 S	21.	.0 E		S	
At Total	Depth		6 FS	L 1714 FEL	-	SWS	SE	30)	9.0 S	21.	.0 E		S	
21. COUN	ITY	UINTAH		22. DISTA	NCE TO NEA	REST LEAS	SE LINE (F	eet)		23. NUMBER OF ACRES IN DRILLING UNIT					
					NCE TO NEA For Drilling			POOL		26. PROPOSED DEPTH MD: 8878 TVD: 4365					
27. ELEV	ATION - GROUI			28. BOND	NUMBER					29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496					
		4853		Ho	ole, Casing	. and Cen		rmation			43-64	+90			
String	Hole Size	Casing Size	Length	Weight	Grade &	•		lud Wt.		Cement Sacks Yiel					
Surf	12.25	9.625	0 - 2818	36.0	J-55 I	LT&C	8	3.4		Type III			2.1	12.5	
									Type III			420	1.46	14.3	
I1	8.75	7	0 - 4692	26.0	HCP-11	0 LT&C	1	0.2	Pre	emium Lite High Stre	ength	450	1.92	12.5	
										Class G		90	1.16	15.8	
L1	6.125	4.5	3792 - 8878	11.6	HCP-11	0 LT&C	9).5		No Used		0	0.0	0.0	
										No Used		0	0.0	0.0	
					A	TTACHMI	ENTS								
	VEI	RIFY THE FOLLO	WING ARE ATTA	CHED IN	ACCORDAN	ICE WITH	THE UTA	H OIL AN	ND GAS	CONSERVATION G	ENERAL	RULES			
⊮ w	ELL PLAT OR N	MAP PREPARED BY	LICENSED SURVEY	OR OR ENGI	INEER		∠ сом	PLETE DRI	LLING PI	_AN					
AF	FIDAVIT OF ST	ATUS OF SURFACE	OWNER AGREEME	NT (IF FEE S	SURFACE)		FORM	5. IF OPE	RATOR IS	S OTHER THAN THE LE	ASE OWN	IER			
I ✓ DII	RECTIONAL SU	IRVEY PLAN (IF DI	RECTIONALLY OR H	ORIZONTAI	LLY DRILLED)	г торо	GRAPHIC#	AL MAP						
NAME C	ara Mahler			TITLE Reg	gulatory Analy	st I			PHONE	720 929-6029					
SIGNATU	JRE			DATE 03/	13/2013				EMAIL	cara.mahler@anadarko	.com				
	ber assigned 04753694			APPROVA	L				Bro	oogylll					
									Perm	nit Manager					

Kerr-McGee Oil & Gas Onshore. L.P.

MU 921-30O4D-CMHZ

Surface: 520 FNL / 1836 FEL NWNE BHL: 6 FSL / 1714 FEL SWSE

Section 30 T9S R21E

Unitah County, Utah Mineral Lease: UTU-0581

ONSHORE ORDER NO. 1

DRILLING PROGRAM

Estimated Tops of Important Geologic Markers: Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,593'	Water
Birds Nest	1,864'	Water
Mahogany	2,368'	Water
Lower Green River	4,355'	Oil/Gas
TVD	4,365'	
TMD	8,878'	

3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program

4. <u>Proposed Casing & Cementing Program:</u>

Please refer to the attached Drilling Program

5. <u>Drilling Fluids Program:</u>

Please refer to the attached Drilling Program

6. <u>Evaluation Program</u>:

Please refer to the attached Drilling Program

7. <u>Abnormal Conditions</u>:

Maximum anticipated bottom hole pressure calculated at 2,183 psi 4365'

4365' TVD, approximately equals

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 1,222 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. <u>Anticipated Starting Dates:</u>

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the attached Drilling Program. Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- · Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- · Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may

be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Drilling Program

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

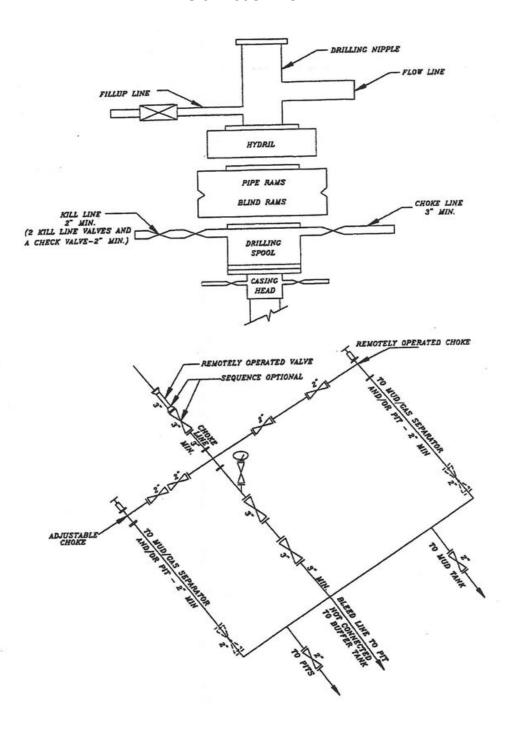
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. <u>Other Information:</u>

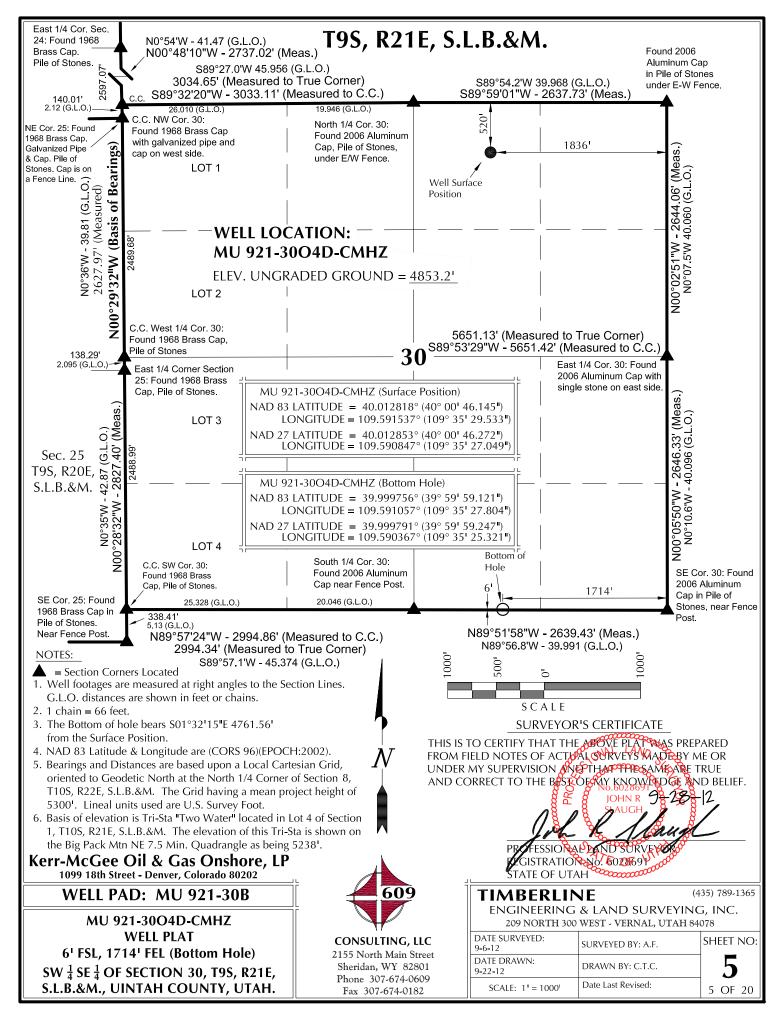
Please refer to the attached Drilling Program.

						DRILLING AND GEOLOGICAL INFORMATION					Based on Survey Plat						
PROSPECT/FIELI	n .		Uintah				COUNTY	Llintoh			GROUND ELEVATION	GR 4,853'		Source of	drilling n	ogram: [Danny Showers
	U						i i		200 40 01417						٠.	_	
OPERATOR			Kerr-McGee				i i		80O4D-CMHZ		RIG HT. 19.0' KB	KB ± 4,872'					Cathryn Schuller
LEASE & WELL N			MU 921-30O4D-CMH				STATE							Source of	log infor	mation:	
SURFACE LOCAT	TION			1836' FEL			BOTTOM HOL	E LOCAT	ION	6' FSL	1714' FEL						
			Section 30	T9S	R21E					Section 30	T9S	R21E				CE N/S	
LAT/LONG (NAD	83)		40.012818	-109.591537			BOTTOM HOL	E LAT/LO	ONG (NAD83)		39.999756	-109.591057				CE E/W	
LAT/LONG (NAD2	27)		40.012853	-109.590847			BOTTOM HOL	E LAT/LO	NG (NAD27)		39.999791	-109.590367	7"	CSG SHOE	N/S (REF	SURF)	73'
AZIMUTH OF HO	RIZONTAL		178.40				STRIKE/DIP O	BJECTIV	E FORMATIO	N			7"	CSG SHOE	E/W (REF	SURF)	6'
FORM @ TD (PIL	OT HOLE)						FORM @ TD (HORIZON	TAL HOLE)		Lower Green River			7" CSG SH	OE N/S (F	REF LL)	093' FNL
API NUMBER	,						AFE NUMBER		•					7" CSG SH	DE E/W (I	REF LL)	820' FEL
	WELLB	BORE		Based on 4,872' KB					LOGGING PF	ROGRAM:					,		
	1			GEOLOGICAL TOPS:			Comme	nts	Inte	rval		Туре				Log	
				Formation	MD	TVD					N/			Two-man u	nit mud la		
					_				Sun C	sg -TD	IV	Mudlogging		i wo-man u	niit mua io	ggirig	
				Green River	1,593 '	1,593 '											
				Birds Nest	1,864 '	1,864 '											
				Mahogany	2,368 '	2,368 '											
				GR lower	4,584 '	4,355 '			HZ Kickof	f - Landing	ľ	MWD/GR		GR			
	1								HZ L	ateral	N	/IWD/LWD		Inc/Az/GR			
												PCL		Triple Comb	oo & FMI	(One too	string)
		9	5/8" CASING DEPTH														
	1	MD:					İ										
		TVD:		HZ proposed Landing TVD @ 572' VS		4,365 '											
		140.	2,010	TIZ proposed Landing TVD @ 372 V3		4,505											
1																	
													1				
1										None			CORES:	None			
1										DRILLING PR							
									Mechanical In	stability when	drilling the curve, bring M	W up 0.5 ppg per 4	45 degrees ove	er curve inter	val		
1																	
1									DEVIATION:	No deviation	estraints based on hard	dlines as we in the	e middle of ur	nitized acrea	ige.		
			7" CEMENT TOP						DEVIATION: NO deviation res						•		
		MD:	0'	Proposed TD (Horizontal)	8,878 '	4,365 '											
		TVD:		MUD PROGRAM:	0,0.0	,			Surface Forn	nation:							
					Interval	I	I			Vis	WL			Pa	marks		
3				Mud Type	Interval	01	0.040 MD		Weight			Onced med EM a	alica la autorita			fl l - 6'.	_
				Fresh Water		0' -	2,818' MD		8.4	40 - 45	NC	Spud mud - FW p			& lime for	flocculation	Ω
				Fresh Water		2,818' MD -	3,792' MD		9	28 - 30	<20	Fresh water with	bentonite for s	weeps			
				FW PHPA (Directional)		3,792' MD -	4,692' MD		10.2	35 - 50	<10	MW & PHPA to n	maintain stabili	ty			
1 1			КОР	FW PHPA (Directional) FW PHPA/Flowzan (Horizontal)		3,792' MD - 4,692' MD -	4,692' MD 8,878' MD		10.2 9.5	35 - 50 35 - 50	<10 <10	MW & PHPA to n		ty			
		TVD/MD:		,										ty			
		TVD/MD:		FW PHPA/Flowzan (Horizontal)	Size	4,692' MD -	8,878' MD	Hole	9.5	35 - 50	<10	Fresh water/PHP	'A		Yield	GPS	Type
		TVD/MD:		FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM:	Size 9 625"	4,692' MD - Wt (ppf)	8,878' MD Grade	Hole	9.5 Top	35 - 50 Bottom	<10 Cement:	Fresh water/PHP	Sx	Density	Yield		Type III
			3,792'	FW PHPA/Flowzan (Horizontal)	Size 9.625"	4,692' MD -	8,878' MD	Hole 12.25"	9.5	35 - 50	<10 Cement: Lead	Fresh water/PHP Ft 1,400 '	Sx ±420 sx	Density 12.5	2.1	11.97	Type III
			3,792' LANDING AND	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing:	9.625"	4,692' MD - Wt (ppf) 36.0	8,878' MD Grade J-55	12.25"	9.5 Top	35 - 50 Bottom	<10 Cement:	Fresh water/PHP	Sx	Density			
		7" IN	3,792' LANDING AND TERMEDIATE DEPTH	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives	9.625" 2.5% SMS, 0.25 lbs	4,692' MD - Wt (ppf) 36.0 S/sk Cello Flake, 0	8,878' MD Grade J-55 0.08 lbs/sk Static f	12.25" ree	9.5 Top 0'	35 - 50 Bottom	<10 Cement: Lead	Fresh water/PHP Ft 1,400 '	Sx ±420 sx	Density 12.5	2.1	11.97	Type III
		7" IN	3,792' LANDING AND FERMEDIATE DEPTH 4,692'	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing:	9.625"	4,692' MD - Wt (ppf) 36.0 S/sk Cello Flake, 0	8,878' MD Grade J-55 0.08 lbs/sk Static f	12.25" ree	9.5 Top 0'	35 - 50 Bottom	<10 Cement: Lead	Fresh water/PHP Ft 1,400 '	Sx ±420 sx	Density 12.5	2.1	11.97	Type III
		7" IN	3,792' LANDING AND FERMEDIATE DEPTH 4,692'	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives	9.625" 2.5% SMS, 0.25 lbs	4,692' MD - Wt (ppf) 36.0 S/sk Cello Flake, 0	8,878' MD Grade J-55 0.08 lbs/sk Static f	12.25" ree	9.5 Top 0'	35 - 50 Bottom	<10 Cement: Lead	Fresh water/PHP Ft 1,400 '	Sx ±420 sx	Density 12.5	2.1	11.97	Type III
		7" IN	3,792' LANDING AND FERMEDIATE DEPTH 4,692'	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chloric	4,692' MD - Wt (ppf) 36.0 s/sk Cello Flake, Cello, 0.25 lbs/sk Cello	Grade J-55 0.08 lbs/sk Static f	12.25" ree /sk Static fro	9.5 Top 0'	35 - 50 Bottom 2,818'	<10 Cement: Lead Tail	Ft 1,400 ' 1,418 '	Sx ±420 sx ±420 sx	Density 12.5 14.3	2.1 1.46	7.18	Type III Type III
		7" INT MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH 4,692' 4,365'	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives	9.625" 2.5% SMS, 0.25 lbs	4,692' MD - Wt (ppf) 36.0 S/sk Cello Flake, 0	8,878' MD Grade J-55 0.08 lbs/sk Static f	12.25" ree	9.5 Top 0'	35 - 50 Bottom	<10 Cement: Lead	Fresh water/PHP Ft 1,400 '	Sx ±420 sx	Density 12.5	2.1	11.97	Type III
		7" INT MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH 4,692'	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chloric	4,692' MD - Wt (ppf) 36.0 s/sk Cello Flake, Cello, 0.25 lbs/sk Cello	Grade J-55 0.08 lbs/sk Static f	12.25" ree /sk Static fro	9.5 Top 0'	35 - 50 Bottom 2,818'	<10 Cement: Lead Tail	Ft 1,400 ' 1,418 '	Sx ±420 sx ±420 sx	Density 12.5 14.3	2.1 1.46	7.18	Type III Type III
		7" INT MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH 4,692' 4,365'	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chloric	4,692' MD - Wt (ppf) 36.0 s/sk Cello Flake, Cello Flake	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/	12.25" ree /sk Static fro	9.5 Top 0'	35 - 50 Bottom 2,818'	<10 Cement: Lead Tail Lead	Ft 1,400 ' 1,418 ' 4,192 '	Sx ±420 sx ±420 sx ±420 sx	Density 12.5 14.3	2.1 1.46	7.18	Type III Type III Premium Lite
		7" INT MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH 4,692' 4,365' LINER TOP 3,792'	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing:	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chloric	4,692' MD - Wt (ppf) 36.0 s/sk Cello Flake, (de, 0.25 lbs/sk Cello Flake) 26.0	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/	12.25" ree /sk Static fro	9.5 Top 0'	35 - 50 Bottom 2,818'	<10 Cement: Lead Tail Lead	Ft 1,400 ' 1,418 ' 4,192 '	Sx ±420 sx ±420 sx ±420 sx	Density 12.5 14.3	2.1 1.46	7.18	Type III Type III Premium Lite
		7" INT MD: TVD: 4 1/2' MD:	3,792' LANDING AND FERMEDIATE DEPTH 4,692' 4,365' LINER TOP 3,792'	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chlorio 7.000"	4,692' MD - Wt (ppf) 36.0 s/sk Cello Flake, (de, 0.25 lbs/sk Cello Flake) 26.0	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/	12.25" ree /sk Static fro	9.5 Top 0'	35 - 50 Bottom 2,818'	<10 Cement: Lead Tail Lead	Ft 1,400 ' 1,418 ' 4,192 '	Sx ±420 sx ±420 sx ±420 sx	Density 12.5 14.3	2.1 1.46	7.18	Type III Type III Premium Lite
		7" INT MD: TVD: 4 1/2' MD:	3,792' LANDING AND FERMEDIATE DEPTH 4,692' 4,365' LINER TOP 3,792'	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives Tail Cmt Additives	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chloric 7.000" 3% Bentonite, 0.4% 20% S-8, 0.4% FL-	4,692' MD - Wt (ppf) 36.0 s/sk Cello Flake, 0 le, 0.25 lbs/sk Cel 26.0 52, 0.1% SMS	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/	ree 'sk Static fro 8.75"	9.5 Top 0'	35 - 50 Bottom 2,818' 4,692'	<10 Cement: Lead Tail Lead Tail	Ft 1,400 ' 1,418 ' 4,192 '	Sx ±420 sx ±420 sx ±420 sx	Density 12.5 14.3	2.1 1.46	7.18	Type III Type III Premium Lite Class G
		7" INT MD: TVD: 4 1/2' MD:	3,792' LANDING AND FERMEDIATE DEPTH 4,692' 4,365' LINER TOP 3,792'	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chlorio 7.000"	4,692' MD - Wt (ppf) 36.0 s/sk Cello Flake, (de, 0.25 lbs/sk Cello Flake) 26.0	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/	12.25" ree /sk Static fro	9.5 Top 0'	35 - 50 Bottom 2,818'	<10 Cement: Lead Tail Lead Tail Lead Lead Lead	Ft 1,400 ' 1,418 ' 4,192 '	Sx ±420 sx ±420 sx ±420 sx	Density 12.5 14.3	2.1 1.46	7.18	Type III Type III Premium Lite
		7" INT MD: TVD: 4 1/2' MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives Tail Cmt Additives Tail Cmt Additives	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chloric 7.000" 3% Bentonite, 0.4% 20% S-8, 0.4% FL-	4,692' MD - Wt (ppf) 36.0 s/sk Cello Flake, 0 le, 0.25 lbs/sk Cel 26.0 52, 0.1% SMS	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/	ree 'sk Static fro 8.75"	9.5 Top 0'	35 - 50 Bottom 2,818' 4,692'	<10 Cement: Lead Tail Lead Tail	Ft 1,400 ' 1,418 ' 4,192 '	Sx ±420 sx ±420 sx ±420 sx	Density 12.5 14.3	2.1 1.46	7.18	Type III Type III Premium Lite Class G
		7" INT MD: TVD: 4 1/2' MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH 4,692' 4,365' LINER TOP 3,792' 3,792' 41/2" LINER DEPTH	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives Tail Cmt Additives Tail Cmt Additives	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chloric 7.000" 3% Bentonite, 0.4% 20% S-8, 0.4% FL-	4,692' MD - Wt (ppf) 36.0 s/sk Cello Flake, 0 le, 0.25 lbs/sk Cel 26.0 52, 0.1% SMS	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/	ree 'sk Static fro 8.75"	9.5 Top 0'	35 - 50 Bottom 2,818' 4,692'	<10 Cement: Lead Tail Lead Tail Lead Lead Lead	Ft 1,400 ' 1,418 ' 4,192 '	Sx ±420 sx ±420 sx ±420 sx	Density 12.5 14.3	2.1 1.46	7.18	Type III Type III Premium Lite Class G
		7" INT MD: TVD: 4 1/2' MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives Tail Cmt Additives Tail Cmt Additives	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chloric 7.000" 3% Bentonite, 0.4% 20% S-8, 0.4% FL-	4,692' MD - Wt (ppf) 36.0 s/sk Cello Flake, 0 le, 0.25 lbs/sk Cel 26.0 52, 0.1% SMS	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/	ree 'sk Static fro 8.75"	9.5 Top 0'	35 - 50 Bottom 2,818' 4,692'	<10 Cement: Lead Tail Lead Tail Lead Lead Lead	Ft 1,400 ' 1,418 ' 4,192 '	Sx ±420 sx ±420 sx ±420 sx	Density 12.5 14.3	2.1 1.46	7.18	Type III Type III Premium Lite Class G
		7" INT MD: TVD: 4 1/2' MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives Tail Cmt Additives Production Csg:	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chloric 7.000" 3% Bentonite, 0.4% 20% S-8, 0.4% FL-	4,692' MD - Wt (ppf) 36.0 s/sk Cello Flake, 0 le, 0.25 lbs/sk Cel 26.0 52, 0.1% SMS	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/	ree 'sk Static fro 8.75"	9.5 Top 0'	35 - 50 Bottom 2,818' 4,692'	<10 Cement: Lead Tail Lead Tail Lead Lead Lead	Ft 1,400 ' 1,418 ' 4,192 '	Sx ±420 sx ±420 sx ±420 sx	Density 12.5 14.3	2.1 1.46	7.18	Type III Type III Premium Lite Class G
		7" INT MD: TVD: 4 1/2' MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives Tail Cmt Additives Production Csg:	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chloric 7.000" 3% Bentonite, 0.4% 20% S-8, 0.4% FL-	4,692' MD - Wt (ppf) 36.0 s/sk Cello Flake, 0 le, 0.25 lbs/sk Cel 26.0 52, 0.1% SMS	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/	ree 'sk Static fro 8.75"	9.5 Top 0'	35 - 50 Bottom 2,818' 4,692'	<10 Cement: Lead Tail Lead Tail Lead Lead Lead	Ft 1,400 ' 1,418 ' 4,192 '	Sx ±420 sx ±420 sx ±420 sx	Density 12.5 14.3	2.1 1.46	7.18	Type III Type III Premium Lite Class G
		7" INT MD: TVD: 4 1/2' MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives Tail Cmt Additives Production Csg:	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chloric 7.000" 3% Bentonite, 0.4% 20% S-8, 0.4% FL- 4.500"	4,692' MD - Wt (ppf) 36.0 s/sk Cello Flake, 0 le, 0.25 lbs/sk Cel 26.0 52, 0.1% SMS	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/ HCP-110 sk Cello Flake	ree 'sk Static fro 8.75"	9.5 Top 0'	35 - 50 Bottom 2,818' 4,692'	<10 Cement: Lead Tail Lead Tail Lead Lead Lead	Fresh water/PHP Ft 1,400 ' 1,418 ' 4,192 ' 500 '	Sx ±420 sx ±420 sx ±420 sx	Density 12.5 14.3	2.1 1.46	7.18	Type III Type III Premium Lite Class G
		7" INT MD: TVD: 4 1/2' MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH 4,692' 4,365' LINER TOP 3,792' 3,792' 41/2" LINER DEPTH 8,878' 4,365'	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives Production Csg: Lead Cmt Additives Tail Cmt Additives	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chlorio 7.000" 3% Bentonite, 0.4% 20% S-8, 0.4% FL- 4.500"	4,692' MD - Wt (ppf) 36.0 S/sk Cello Flake, (le, 0.25 lbs/sk Cel 26.0 6 FL - 52, 0.25 lb/s 52, 0.1% SMS	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/ HCP-110 sk Cello Flake	ree 'sk Static fro 8.75"	9.5 Top 0'	35 - 50 Bottom 2,818' 4,692'	<10 Cement: Lead Tail Lead Tail Lead Tail	Fresh water/PHP Ft 1,400 ' 1,418 ' 4,192 ' 500 '	Sx ±420 sx ±420 sx ±420 sx ±450 sx ±90 sx	Density 12.5 14.3 12.5 15.8	2.1 1.46	7.18	Type III Type III Premium Lite Class G
		7" INT MD: TVD: 4 1/2' MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH 4,692' 4,365' LINER TOP 3,792' 3,792' 41/2" LINER DEPTH 8,878' 4,365'	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives Production Csg: Lead Cmt Additives Tail Cmt Additives	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chlorio 7.000" 3% Bentonite, 0.4% 20% S-8, 0.4% FL- 4.500"	4,692' MD - Wt (ppf) 36.0 S/sk Cello Flake, (le, 0.25 lbs/sk Cel 26.0 6 FL - 52, 0.25 lb/s 52, 0.1% SMS	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/ HCP-110 sk Cello Flake	ree 'sk Static fro 8.75"	9.5 Top 0'	35 - 50 Bottom 2,818' 4,692'	Cement: Lead Tail Lead Tail Lead Tail Toe / 4 1/2" LINER SETT	Fresh water/PHP Ft 1,400 ' 1,418 ' 4,192 ' 500 '	Sx ±420 sx ±420 sx ±420 sx ±450 sx ±90 sx	Density 12.5 14.3	2.1 1.46	7.18	Type III Type III Premium Lite Class G
		7" INT MD: TVD: 4 1/2' MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives Production Csg: Lead Cmt Additives Tail Cmt Additives Tail Cmt Additives	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chlorio 7.000" 3% Bentonite, 0.4% 20% S-8, 0.4% FL- 4.500"	4,692' MD - Wt (ppf) 36.0 S/sk Cello Flake, (le, 0.25 lbs/sk Cel 26.0 6 FL - 52, 0.25 lb/s 52, 0.1% SMS	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/ HCP-110 sk Cello Flake	ree 'sk Static fro 8.75"	9.5 Top 0'	35 - 50 Bottom 2,818' 4,692'	Cement: Lead Tail Lead Tail Lead Tail Toe / 4 1/2" LINER SETT	Fresh water/PHP Ft 1,400 ' 1,418 ' 4,192 ' 500 '	Sx ±420 sx ±420 sx ±420 sx ±450 sx ±90 sx	Density 12.5 14.3 12.5 15.8	2.1 1.46	7.18	Type III Type III Premium Lite Class G
		7" INT MD: TVD: 4 1/2' MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives Production Csg: Lead Cmt Additives Tail Cmt Additives	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chlorio 7.000" 3% Bentonite, 0.4% 20% S-8, 0.4% FL- 4.500"	4,692' MD - Wt (ppf) 36.0 S/sk Cello Flake, (le, 0.25 lbs/sk Cel 26.0 6 FL - 52, 0.25 lb/s 52, 0.1% SMS	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/ HCP-110 sk Cello Flake	ree 'sk Static fro 8.75"	9.5 Top 0'	35 - 50 Bottom 2,818' 4,692'	Cement: Lead Tail Lead Tail Lead Tail Toe / 4 ½" LINER SETT MD:	Fresh water/PHP Ft 1,400 ' 1,418 ' 4,192 ' 500 '	Sx ±420 sx ±420 sx ±420 sx ±450 sx ±90 sx	Density 12.5 14.3 12.5 15.8	2.1 1.46	7.18	Type III Type III Premium Lite Class G
		7" INT MD: TVD: 4 1/2' MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives Production Csg: Lead Cmt Additives Tail Cmt Additives Tail Cmt Additives	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chlorio 7.000" 3% Bentonite, 0.4% 20% S-8, 0.4% FL- 4.500"	4,692' MD - Wt (ppf) 36.0 S/sk Cello Flake, (le, 0.25 lbs/sk Cel 26.0 6 FL - 52, 0.25 lb/s 52, 0.1% SMS	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/ HCP-110 sk Cello Flake	ree 'sk Static fro 8.75"	9.5 Top 0' oe 0' 3,792'	35 - 50 Bottom 2,818' 4,692'	Cement: Lead Tail Lead Tail Lead Tail Toe / 4 1/2" LINER SETT	Fresh water/PHP Ft 1,400 ' 1,418 ' 4,192 ' 500 '	Sx ±420 sx ±420 sx ±420 sx ±450 sx ±90 sx	Density 12.5 14.3 12.5 15.8 4,365'	2.1 1.46 1.92 1.16	7.18	Type III Type III Premium Lite Class G
	PIL	7" INT MD: TVD: 4 1/2' MD: TVD: MD: TVD:	3,792' LANDING AND FERMEDIATE DEPTH	FW PHPA/Flowzan (Horizontal) CASING & CEMENT PROGRAM: Surface Casing: Lead Cmt Additives Tail Cmt Additives Intermediate Casing: Lead Cmt Additives Production Csg: Lead Cmt Additives Tail Cmt Additives BOTTOM HOLE PRESSURE	9.625" 2.5% SMS, 0.25 lbs 2% Calcium Chloric 7.000" 3% Bentonite, 0.4% 20% S-8, 0.4% FL- 4.500" Lateral Length	4,692' MD - Wt (ppf) 36.0 S/sk Cello Flake, (le, 0.25 lbs/sk Cel 26.0 6 FL - 52, 0.25 lb/s 52, 0.1% SMS	Grade J-55 0.08 lbs/sk Static f llo Flake, 0.08 lbs/ HCP-110 sk Cello Flake	12.25" ree (sk Static fro 8.75"	9.5 Top 0' oe 0' 3,792'	35 - 50 Bottom 2,818' 4,692'	Cement: Lead Tail Lead Tail Lead Tail Toe / 4 ½" LINER SETT MD:	Fresh water/PHP Ft 1,400 ' 1,418 ' 4,192 ' 500 ' TING DEPTH: 8,878'	Sx	Density 12.5 14.3 12.5 15.8 4,365'	2.1 1.46 1.92 1.16	11.97 7.18	Type III Type III Premium Lite Class G

EXHIBIT A
MU 921-3004D-CMHZ

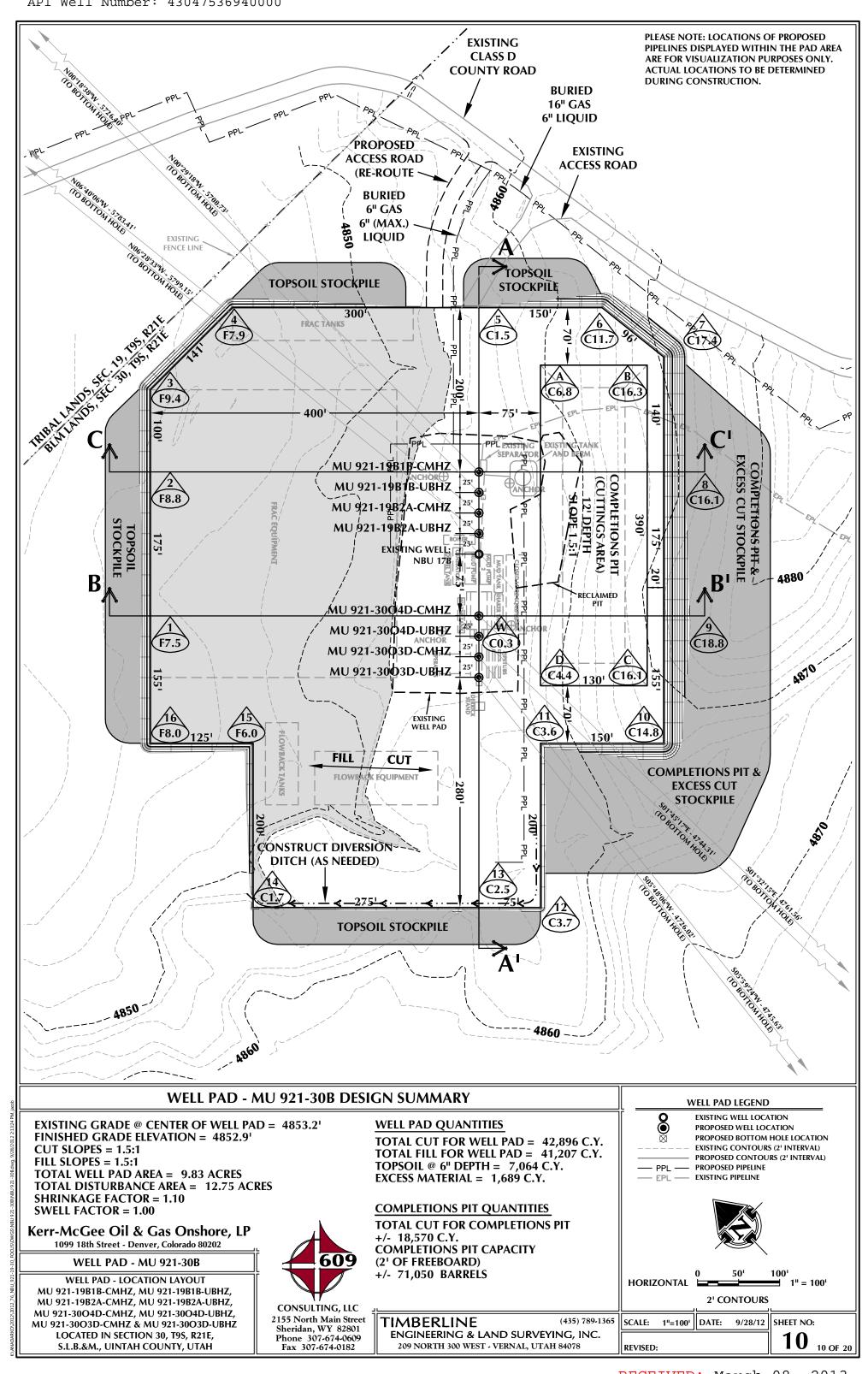


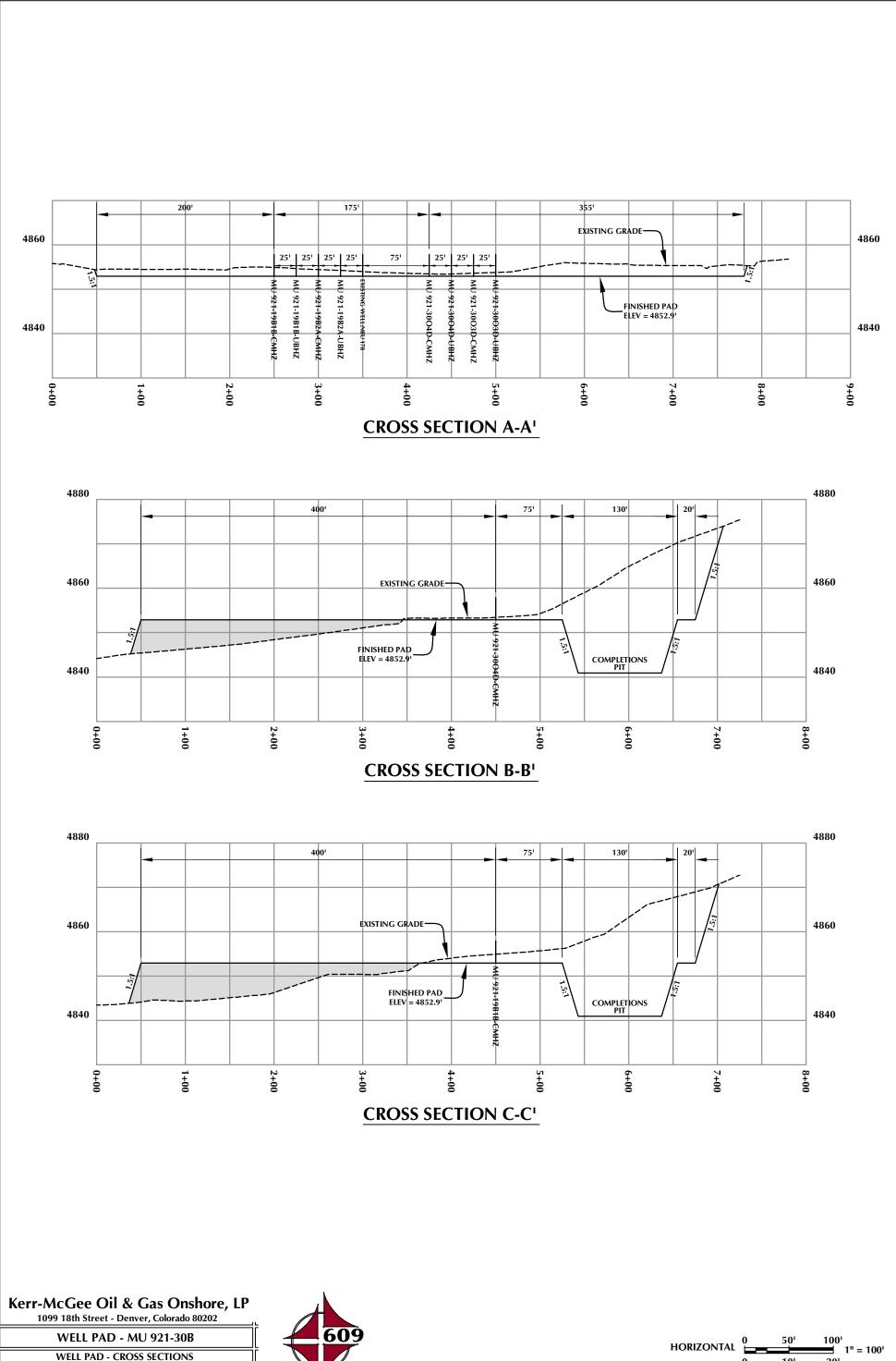
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



		BOTTOM HOLE											
WELL NAME		D83		NAD27				NAD			NAD		
MU	LATITUDE 40°00'47.381	LONGITU 109°35'27.9		DE LONG 508" 109°35		FOOTAGES 395' FNL	40°01'4		LONGI 109°35'2		40°01'43 906"	LONGITUDE 109°35'26.205"	FOOTAGES 2' FNL
921-19B1B-CMHZ	40.013161°	109.591100	· 40.013197	^{7°} 109.590	0410°	1713¹ FEL	40.0288	327°	109.5913	303°	40.028863°	109.590612°	1756' FEL
MU 921-19B1B-UBHZ	40°00'47.205 40.013112°			332" 109°35		413' FNL	40°01'4 40.0288		109°35'2 109.5913		40°01'43.906" 40.028863°	109°35'26.205"	2' FNL
MU	40°00'47.028	109.591163 109°35'28.4		3° 109.590 155" 109°35		1730' FEL 431' FNL	40.0288 40°01'4		109.5913 109°35'3			109.590612° 109°35'34.661"	1756' FEL 2' FNL
921-19B2A-CMHZ	10.015005	109.591225	° 40.013099	9° 109.590)535°	1748' FEL	40.0288	325°	109.5936	552°	40.028861°	109.592961°	2414' FEL
MU 921-19B2A-UBHZ	40°00'46.851 40.013014°	109°35'28.6 109.591287		978" 109°35 D° 109.590		449' FNL 1765' FEL	40°01'4 40.0288		109°35'3 109.5936	.,	40°01'43.898" 40.028861°	109°35'34.661" 109.592961°	2' FNL 2414' FEL
NBU 178	40°00'46.675 40.012965°	109°35'28.8	59" 40°00'46.8	802" 109°35	26.375"	466' FNL							
	10.012303	109.591350		1		1783 FEL From Surface	e Position	to Botto	om Hole				
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAS	T WELL	NAME	NORT	ГН	EAST	WELL NAM	E NORTH	EAST
MU 921-19B1B-CMHZ	5708.51	-48.7' A	AU 21-19B1B-UBHZ	5726.31	-31.0) MU 921-19B	2A-CMHZ	5744	.31	-671.6	MU 921-19B2A-UB	HZ 5762.1	-654.1'
N06°28'3 (To Bo AZ=3 N06°40'0 (To Bo	353.52417° 3"W - 579° ottom Hole 353.33167° 96"W - 578 ottom Hole	9.15' —— 3.41' ——	1		NO NO STATE OF THE PARTY OF THE	AZ=359. 0°18'38"V (To Botto AZ=35 00°29'18" (To Bott	V - 572 m Hole 9.5116 W - 57 om Ho	6.40' e) 67 (08.73	3'	S.L.B GLOI	.&M. WHICH BAL POSITIO	SECTION 30, 7 IS TAKEN FRO NING SATELLI O BEAR NOO	DM TE
WEL MU 921-3 MU 921-3 LOCA	MU 921-30O 21-30O3D-U	3D-CMHZ BHZ & Gas O enver, Colora MU 921 RFERENCE MU 921-19B MU 921-30C MU 921-30C MU 921-30C MU 921-30C MU 921-30C	nshore, L do 80202 I-30B PLAT 11B-UBHZ, 12A-UBHZ, 03D-UBHZ, R21E,	P.	CONSI 2155 No Sherida Phone	609 ULTING, LL orth Main Strain, WY 8280 307-674-060 07-674-0182	C eset 11 199	DATE 9-6-1 DATE 9-22-	209 NO SURVEYE 2 DRAWN:	EERING ORTH 30 ED:	NE G & land :	SURVEYINC NAL, UTAH 840 Y: A.F. C.T.C.	*

			SURFACE POS	SITION			BOTTOM HOLE							
WELL NAME	NAI			NAD27				D83	NAI					
	LATITUDE	LONGITU				TAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES			
MU 921-30O4D-CMHZ	40°00'46.145" 40.012818°	109°35'29.5 109.591537		1.00 00 =			39°59'59.121" 39.999756°	109°35'27.804" 109.591057°	39°59'59.247" 39.999791°	109°35'25.321" 109.590367°	6' FSL 1714' FEL			
MU	40°00'45.969"	109°35'29.7	758" 40°00'46	.096" 109°35'2	27.274" 538	' FNL	39°59'59.121"	109°35'27.804"	39°59'59.247"	109°35'25.321"	6' FSL			
	40.012769° 40°00'45.793"	109.591599 109°35'29.9					39.999756° 39°59'59.156"	109.591057° 109°35'36.257"	39.999791° 39°59'59.283"	109.590367° 109°35'33.773"	1714' FEL 9' FSL			
921-30O3D-CMHZ	40.012720°	109.591662	40.01275	6° 109.590	972° 187	1' FEL	39.999766°	109.593405°	39.999801°	109.592715°	2372' FEL			
	40°00'45.616" 40.012671°	109°35'30.2 109.591724		10000			39°59'59.156" 39.999766°	109°35'36.257" 109.593405°	39°59'59.283" 39.999801°	109°35'33.773" 109.592715°	9' FSL 2372' FEL			
		1.03.53172		1			Position to Bot	•		1.03.3327.13	1 23/2 122			
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL	NAME NOF	RTH EAST	WELL NAM	ME NORTH	EAST			
MU 921-30O4D-CMHZ	-4759.8'		MU 921-30O4D-UBHZ	-4742.1		MU 921-30O3	-471	9.7' -495.2'	MU 921-30O3D-UE	-4701.8 ¹	-477.7'			
OF THE I S.L.B.&M GLOBAL	F BEARINGS I NW ¼ OF SEC I. WHICH IS T POSITIONIN ATIONS TO E	TION 30, T FAKEN FRC IG SATELLI BEAR N00°2	795, R21E, DM ITE 19932"W.	300 a0 CM	Chri	MU 5. (927.1982 11. NBU	MI 921. 1981B	Control						
SAR PATT TO THE WORLD	.80167° .80167° - 4726.02 n Hole)	-4745.63'	10 30 10 10 10 10 10 10 10 10 10 10 10 10 10	**************************************	3.0,	/								
(To Bottom Hol.)	AZ=185.80167° °48'06"W - 4726.02 (To Bottom Hole)	1.5	030 UBIN 460 5 150.0 150	(To Bottor AZ=178.2	m Hole) - 4761.56 46250° om Hole) E - 4744.3	, ,		,09	To E	N CALE	,09			
Kerr-McC 1099 18 WELL	AZ=185.8016(9) AZ=185.80167° AZ=18	S05°59'24"W - 4745.63' - A Cas O O Nover, Colora MU 92	Osb, Varion Conshore, I ado 80202 1-30B	(To Bottor 11°32'15"E AZ=178. (To Botto 01°45'17"E AZ=178.2	m Hole) - 4761.56 46250° om Hole) E - 4744.3 24528°	, ,	T	IMBERL ENGINEERIN	S (INE NG & LAND	C A L E	35) 789-1365 G, INC.			
Kerr-McC 1099 18 WELL MU 921-19	AZ=185.80167° AZ=185.80167° AZ=185.80167° Bith Street - De L PAD - A726.02 Bath Street - De L PAD - A726.02	SOS 05 24 W - 4745.63 O WE STERENCE MU 921-191	Osb Ustra Solution So	(To Bottor 11°32'15"E AZ=178. (To Botto 01°45'17"E AZ=178.2	m Hole) - 4761.56 46250° om Hole) E - 4744.3 24528°	09	T	IMBERL ENGINEERIN 209 NORTH:	S (INE NG & LAND 300 WEST - VER	CALE (4. SURVEYINC RNAL, UTAH 840	35) 789-1365 G, INC.			
Kerr-McC 1099 18 WELL MU 921-19 MU 921-19 MU 921-300	AZ=185.80167° AZ=185.80167° Bith Street - De L PAD - Mills - 4726.02 Bith Street - De Bith Street - De Company of the part of the pa	Gas O Nuer, Colors WU 92 WU 921-191 MU 921-191 MU 921-191 MU 921-300	Onshore, I ado 80202 1-30B PLAT B1B-UBHZ, 04D-UBHZ,	(To Bottor 11°32'15"E AZ=178. (To Botto 01°45'17"E AZ=178.2	m Hole) - 4761.56 46250° om Hole) E - 4744.3 24528° CONSULTIN	09 NG, LLC Lain Street	DAT Page 1	IMBERL ENGINEERIN 209 NORTH: TE SURVEYED: 12	S (INE IG & LAND 300 WEST - VER SURVEYED E	C A L E (4. SURVEYINC RNAL, UTAH 840 BY: A.F.	35) 789-1365 G, INC. 078 SHEET NO:			
Kerr-McC 1099 18 WELL MU 921-19 MU 921-300 MU 921-300	AZ=185.80167° AZ=185.80167° Soft Street - De The Date of the Part of the Pa	Gas O Nuer, Colors WU 92 WU 921-191 MU 921-300 MU 921-300	Onshore, I ado 80202 1-30B PLAT B1B-UBHZ, 04D-UBHZ, 003D-UBHZ	(To Bottor of the state of the	m Hole) - 4761.56 46250° om Hole) E - 4744.3 24528°	NG, LLC lain Street Y 82801	DAT 9-6- et 9-22	IMBERL ENGINEERIN 209 NORTH: TE SURVEYED: 12 TE DRAWN:	S (INE NG & LAND 300 WEST - VER	C A L E (4. SURVEYINC RNAL, UTAH 840 BY: A.F.	35) 789-1365 G, INC. 078			





MU 921-19B1B-CMHZ, MU 921-19B1B-UBHZ, MU 921-19B2A-CMHZ, MU 921-19B2A-UBHZ, MU 921-30O4D-CMHZ, MU 921-30O4D-UBHZ, MU 921-30O3D-CMHZ & MU 921-30O3D-UBHZ LOCATED IN SECTION 30, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH



TIMBERLINE (435) 789-1365 | Scale:
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078 | REVISED:

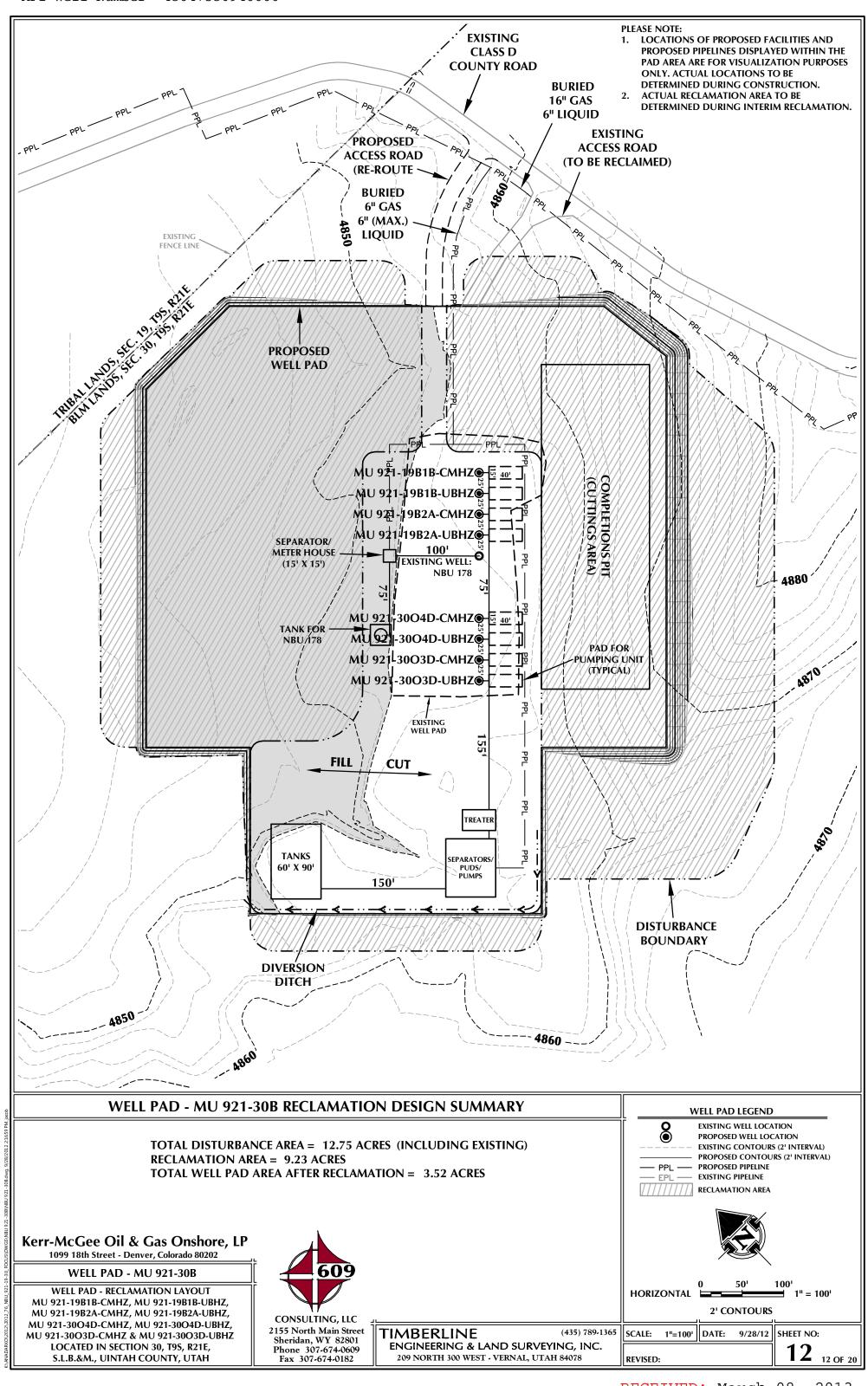




PHOTO VIEW: FROM LOCATION STAKES TO CORNER #2

CAMERA ANGLE: NORTHWESTERLY



PHOTO VIEW: FROM LOCATION STAKES TO CORNER #1

CAMERA ANGLE: NORTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - MU 921-30B

LOCATION PHOTOS

MU 921-19B1B-CMHZ, MU 921-19B1B-UBHZ, MU 921-19B2A-CMHZ, MU 921-19B2A-UBHZ, MU 921-30O4D-CMHZ, MU 921-30O4D-UBHZ, MU 921-30O3D-CMHZ & MU 921-30O3D-UBHZ LOCATED IN SECTION 30, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC

2155 North Main Street Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

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l	-							 _		

D/

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 9-6-12	PHOTOS TAKEN BY: A.F.	SHEET NO:
DATE DRAWN: 9-22-12	DRAWN BY: C.T.C.	13A
Date Last Revised:		13A OF 20



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: SOUTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - MU 921-30B

LOCATION PHOTOS

MU 921-19B1B-CMHZ, MU 921-19B1B-UBHZ, MU 921-19B2A-CMHZ, MU 921-19B2A-UBHZ, MU 921-30O4D-CMHZ, MU 921-30O4D-UBHZ, MU 921-30O3D-CMHZ & MU 921-30O3D-UBHZ LOCATED IN SECTION 30, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.



CONSULTING, LLC

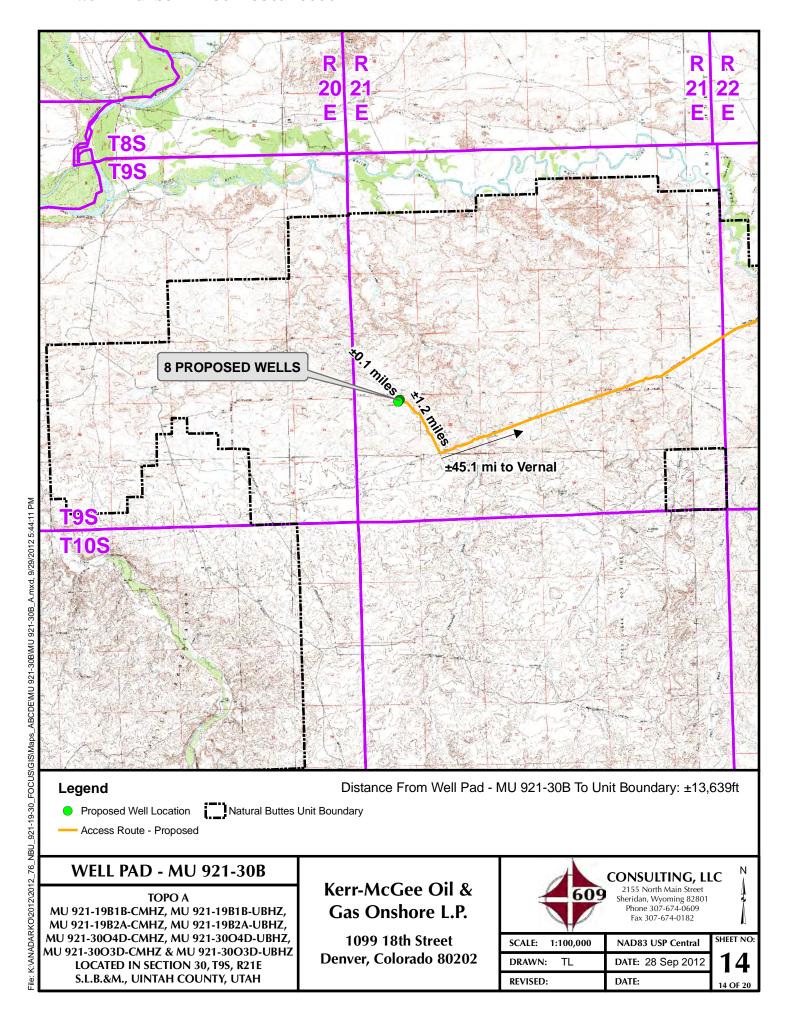
2155 North Main Street Sheridan, WY 82801 Phone 307-674-0609 Fax 307-674-0182

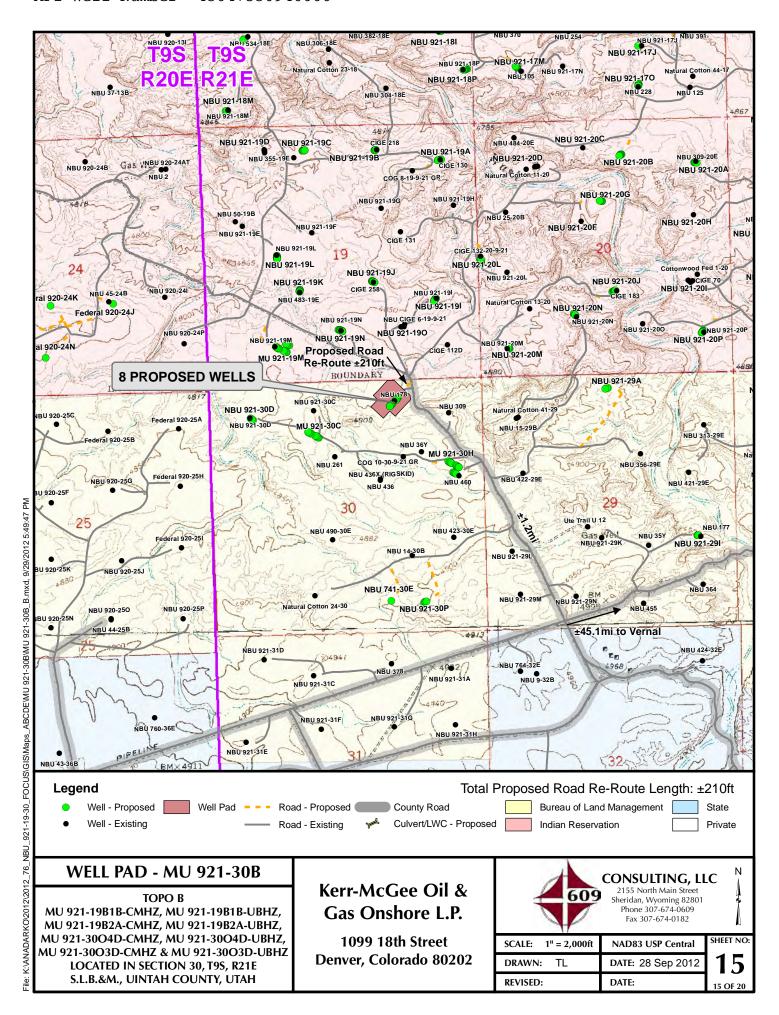
TIMBERLINE

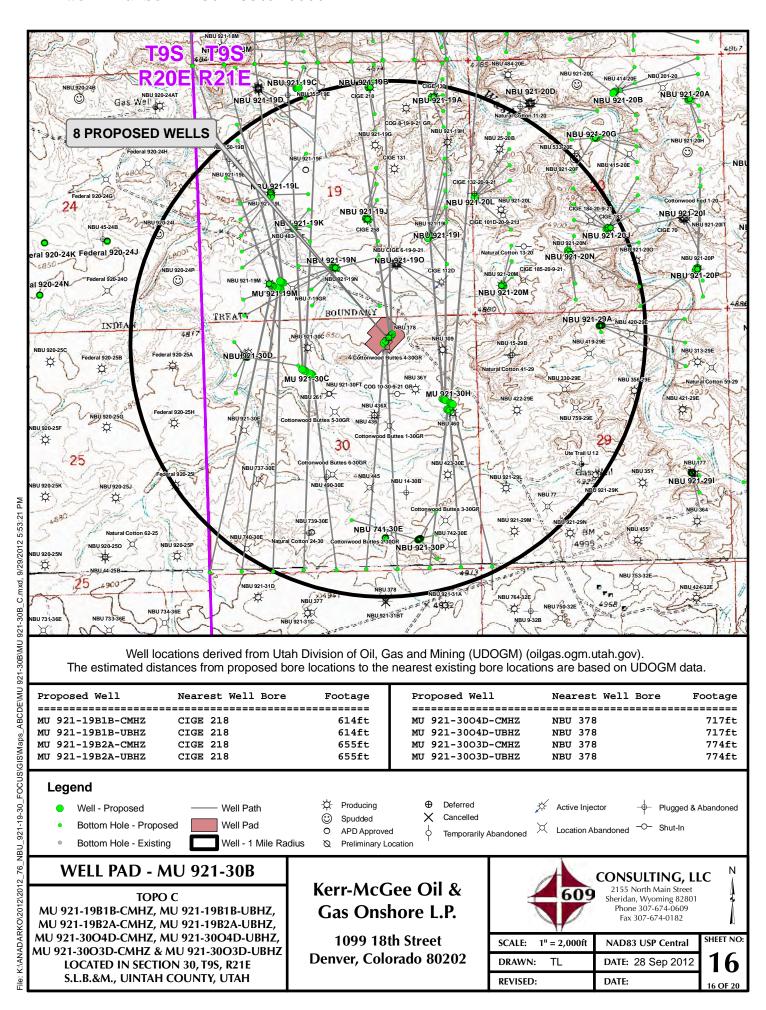
(435) 789-1365

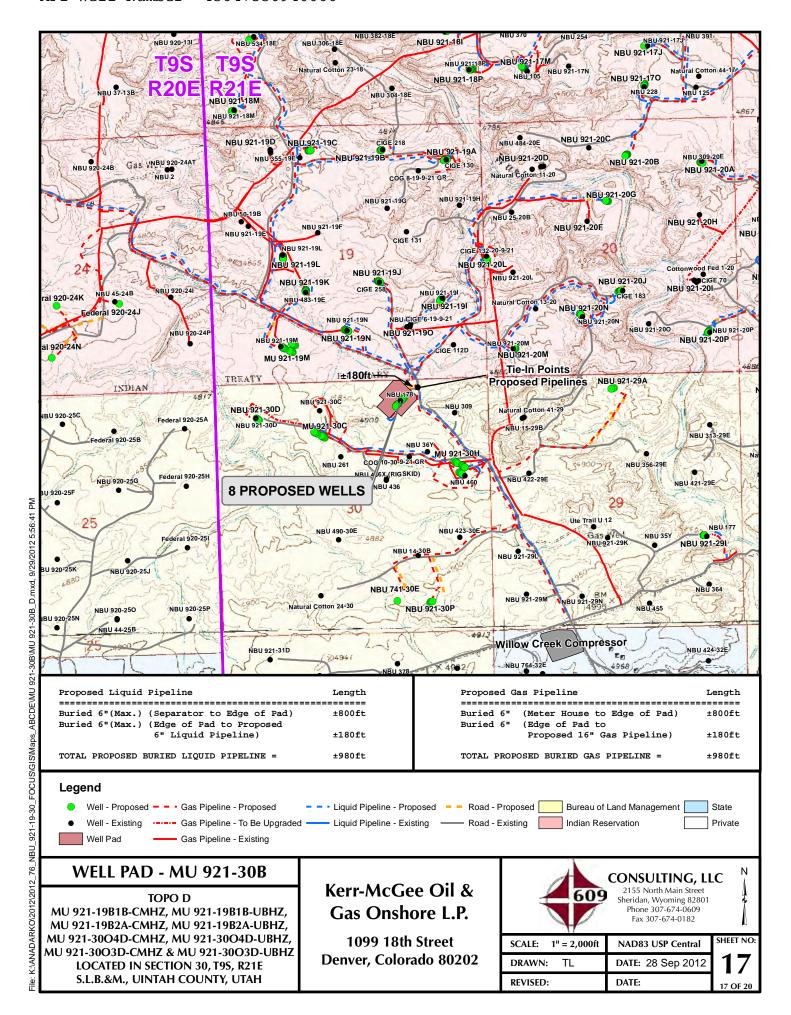
ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

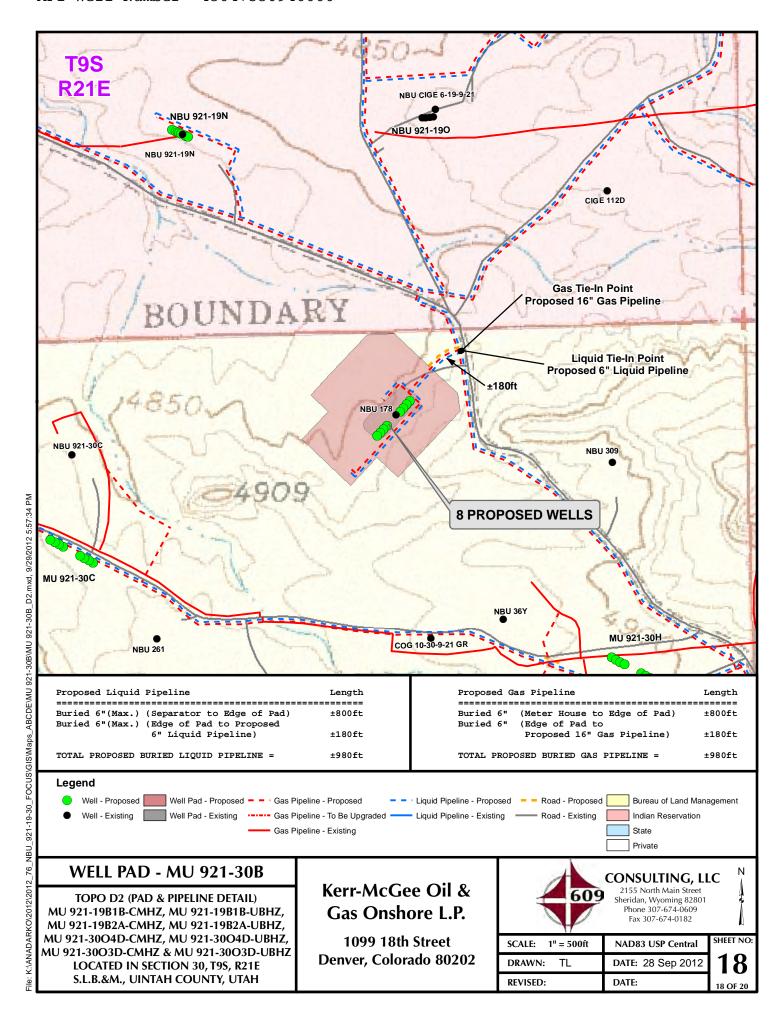
ı			-
	DATE PHOTOS TAKEN:	PHOTOS TAKEN BY: A.F.	SHEET NO:
	DATE DRAWN: 9-22-12	DRAWN BY: C.T.C.	13B
	Date Last Revised:		13B OF 20

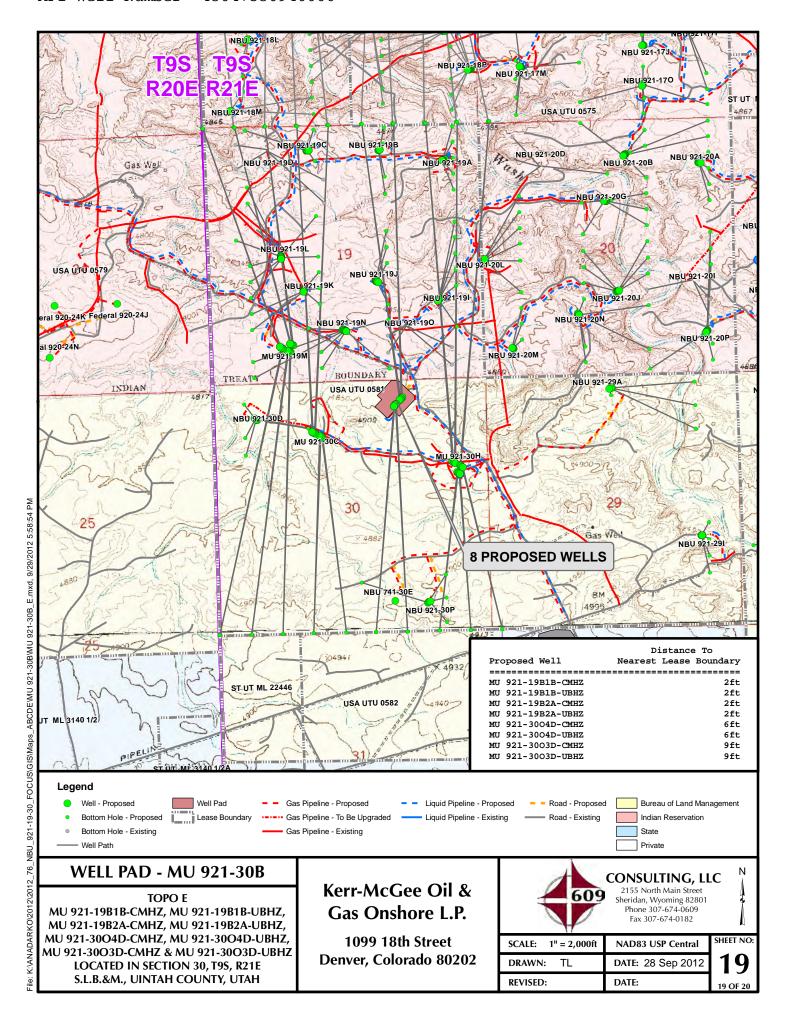












Kerr-McGee Oil & Gas Onshore, LP WELL PAD – MU 921-30B WELL – MU 921-19B1B-CMHZ, MU 921-19B1B-UBHZ, MU 921-19B2A-CMHZ, MU 921-19B2A-UBHZ, MU 921-30O4D-CMHZ, MU 921-30O4D-UBHZ, MU 921-30O3D-CMHZ & MU 921-30O3D-UBHZ Section 30, T9S, R21E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 17.7 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly direction along the Class D County Road approximately 3.9 miles to a second Class D County Road to the northwest. Exit right and proceed in a northwesterly direction along the second Class D County Road approximately 1.2 miles to the proposed access road. Follow road flags in a southwesterly direction approximately 210 feet to the proposed well location.

Total distance from Vernal, Utah, to the proposed well location is approximately 46.4 miles in a southerly direction.

SHEET 20 OF 20

API Well Number: 43047 5266 OUTAH - UTM (feet), NAD27, Zone 12N

Scientific Drilling

Site: MU 921-30B PAD Well: MU 921-30O4D-CMHZ

Wellbore: OH

Design: PLAN #1 PRELIMINARY



WELL DETAILS: MU 921-30O4D-CMHZ GL 4853 & KB 19 @ 4872.00ft (ASSUMED) Easting +N/-S +E/-W Northing Latittude Longitude 14533844.70 2034994.65 0.00 0.00 40.0128530 -109.5908470 **DESIGN TARGET DETAILS** +N/-S TVD +E/-W Northing **Easting** Latitude Longitude Name PBHL Shape 4365.00 -4757.18 134.44 14529090.25 2035204.30 39.9997910 -109.5903670 Point - plan hits target center **SECTION DETAILS VSect** +N/-S +E/-W Dleg TVD **TFace** MD Inc Azi 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 3792.04 0.00 0.00 3792.04 0.00 0.00 0.00 0.00 0.00 78.38 572.96 0.00 4759.08BHL_MU 921-30O4D-CMHZ 4692.04 90.00 178.38 4365.00 -572.73 16.19 10.00 178.38 8878.16 90.00 178.38 4365.00 -4757.18 134.44 0.00 PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N

> Geodetic System: Universal Transverse Mercator (US Survey Feet) Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W)

Location: SECTION 30 T9S R21E

System Datum: Mean Sea Level

CASING DETAILS

TVD Name Size 2818.00 2818.00 9 5/8" 9.625 4365.00 4692.04 7.000

FORMATION TOP DETAILS

TVDPath MDPath Formation **GREEN RIVER** 1593.00 1593.00 **BIRDSNEST** 1864.00 1864.00 MAHOGANY 2368.00 2368.00 4584.84 GREEN RIVER LOWER 4355.00

RECEIVED: March 08, 2013

API Well Number: 43047536940000 Project: UTAH - UTM (feet), NAD27, Zone 12N

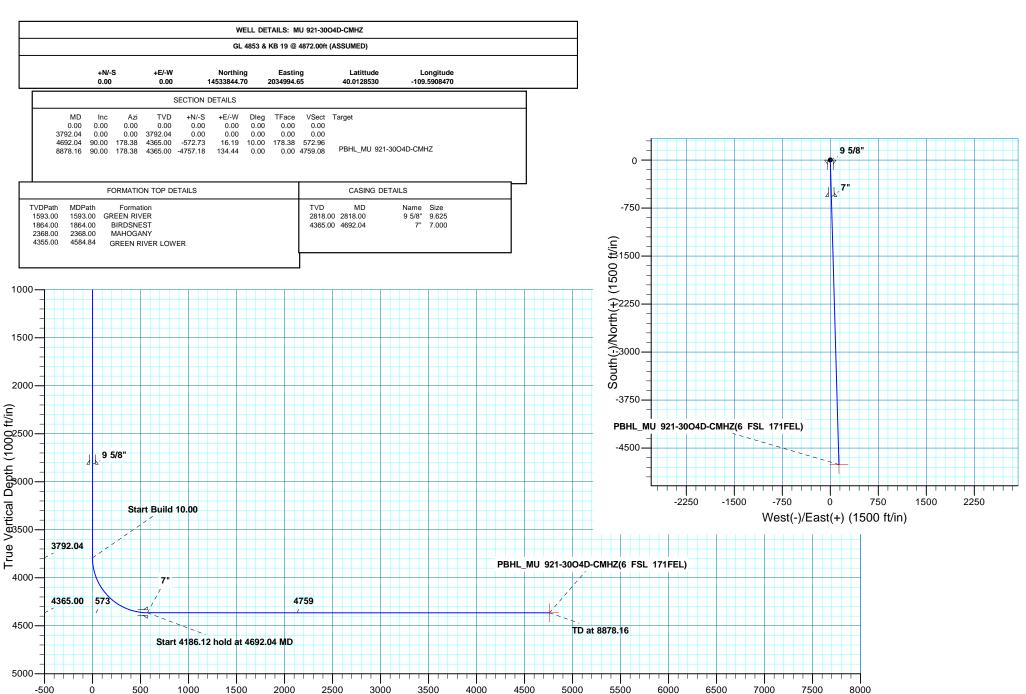
Scientific Drilling

Site: MU 921-30B PAD Well: MU 921-30O4D-CMHZ

Wellbore: OH

Design: PLAN #1 PRELIMINARY





Vertical Section at 178.38° (1000 ft/in)

Plan: PLAN #1 PRELIMINARY (MU 921-3004D-CMHZ/OH) Created By: RobertScott Date: 12:06, December 19 2012



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N MU 921-30B PAD MU 921-30O4D-CMHZ

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

19 December, 2012





SDIPlanning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

Site: MU 921-30B PAD

Well: MU 921-30O4D-CMHZ

Wellbore: OH

Site

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well MU 921-30O4D-CMHZ

GL 4853 & KB 19 @ 4872.00ft (ASSUMED) GL 4853 & KB 19 @ 4872.00ft (ASSUMED)

True

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

 Geo Datum:
 NAD 1927 (NADCON CONUS)

 Map Zone:
 Zone 12N (114 W to 108 W)

System Datum: Mean Sea Level

MU 921-30B PAD, SECTION 30 T9S R21E

 Site Position:
 Northing:
 14,533,971.91 usft
 Latitude:
 40.0131970

 From:
 Lat/Long
 Easting:
 2,035,115.03 usft
 Longitude:
 -109.5904100

 Position:
 10,000 in the position will be approximated as a position will be

Position Uncertainty:0.00 ftSlot Radius:13.200 inGrid Convergence:0.91 °

Well MU 921-30O4D-CMHZ, 520 FNL 1836 FEL

 Well Position
 +N/-S
 -125.28 ft
 Northing:
 14,533,844.71 usft
 Latitude:
 40.0128530

 +E/-W
 -122.38 ft
 Easting:
 2,034,994.64 usft
 Longitude:
 -109.5908470

Position Uncertainty 0.00 ft Wellhead Elevation: Ground Level: 4,853.00 ft

Wellbore ОН Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (nT) (°) (°) IGRF2010 2012/12/19 10.92 65.82 52,174

PLAN #1 PRELIMINARY Design Audit Notes: Version: Phase: PLAN Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 178.38

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,792.04	0.00	0.00	3,792.04	0.00	0.00	0.00	0.00	0.00	0.00	
4,692.04	90.00	178.38	4,365.00	-572.73	16.19	10.00	10.00	0.00	178.38	
8,878.16	90.00	178.38	4,365.00	-4,757.18	134.44	0.00	0.00	0.00	0.00 PB	HL_MU 921-30O4

RECEIVED: March 08, 2013



SDIPlanning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 MU 921-30B PAD

 Well:
 MU 921-30O4D-CMHZ

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well MU 921-30O4D-CMHZ

GL 4853 & KB 19 @ 4872.00ft (ASSUMED) GL 4853 & KB 19 @ 4872.00ft (ASSUMED)

True

Minimum Curvature

ign:	FLAN#IFKE								
nned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
4 000 00	0.00	0.00	4 000 00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00		0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
			,						
1,593.00	0.00	0.00	1,593.00	0.00	0.00	0.00	0.00	0.00	0.00
GREEN RIV	ER								
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	0.00		1,700.00	0.00	0.00	0.00		0.00	
1,700.00		0.00	,				0.00		0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4 004 00	0.00	0.00	4 004 00	0.00	0.00	0.00	0.00	0.00	0.00
1,864.00	0.00	0.00	1,864.00	0.00	0.00	0.00	0.00	0.00	0.00
BIRDSNEST	Γ								
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
,			,						
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,368.00	0.00	0.00	2,368.00	0.00	0.00	0.00	0.00	0.00	0.00
MAHOGAN			,						
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
_,000.00	0.00		_,000.00				0.00	0.00	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,818.00	0.00			0.00	0.00		0.00	0.00	
,	0.00	0.00	2,818.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
			,						
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,792.04	0.00	0.00	3,792.04	0.00	0.00	0.00	0.00	0.00	0.00
		0.00	3,192.04	0.00	0.00	0.00	0.00	0.00	0.00
Start Build	10.00								
3,800.00	0.80	178.38	3,800.00	-0.06	0.00	0.06	10.00	10.00	0.00
3,900.00	10.80	178.38	3,899.36	-10.14	0.29	10.14	10.00	10.00	0.00
3,300.00	10.00	170.00	0,000.00	10.17	0.23	10.17	10.00	10.00	0.00
4,000.00	20.80	178.38	3,995.46	-37.31	1.05	37.33	10.00	10.00	0.00
4,100.00	30.80	178.38	4,085.38	-80.76	2.28	80.79	10.00	10.00	0.00
4,200.00	40.80	178.38	4,166.39	-139.15	3.93	139.20	10.00	10.00	0.00
4,300.00	50.80	178.38	4,236.03	-210.71	5.95	210.80	10.00	10.00	0.00



SDIPlanning Report



Database: EDM5000-RobertS-Local

Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N

 Site:
 MU 921-30B PAD

 Well:
 MU 921-30O4D-CMHZ

Wellbore: OH

Design: PLAN #1 PRELIMINARY

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well MU 921-30O4D-CMHZ

GL 4853 & KB 19 @ 4872.00ft (ASSUMED) GL 4853 & KB 19 @ 4872.00ft (ASSUMED)

True

Minimum Curvature

Design: PLAN #1 PRELIMINARY										
Planned	d Survey									
. idiiiloc	Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
	4,400.00	60.80	178.38	4,292.17	-293.28	8.29	293.40	10.00	10.00	0.00
	4,500.00 4,584.84	70.80 79.28	178.38 178.38	4,333.12 4,355.00	-384.34 -466.19	10.86 13.17	384.49 466.38	10.00 10.00	10.00 10.00	0.00 0.00
	GREEN RIVE	R LOWER								
	4,600.00 4,692.04	80.80 90.00	178.38 178.38	4,357.62 4,365.00	-481.12 -572.73	13.60 16.19	481.31 572.96	10.00 10.00	10.00 10.00	0.00 0.00
		hold at 4692.04		4,305.00	-5/2./3	10.19	572.96	10.00	10.00	0.00
	4,700.00	90.00	178.38	4,365.00	-580.68	16.41	580.92	0.00	0.00	0.00
	4,800.00	90.00	178.38	4,365.00	-680.64	19.23	680.92	0.00	0.00	0.00
	4,900.00	90.00	178.38	4,365.00	-780.60	22.06	780.92	0.00	0.00	0.00
	5,000.00	90.00	178.38	4,365.00	-880.56	24.88	880.92	0.00	0.00	0.00
	5,100.00	90.00	178.38	4,365.00	-980.52	27.71	980.92	0.00	0.00	0.00
	5,200.00	90.00	178.38	4,365.00	-1,080.48	30.53	1,080.92	0.00	0.00	0.00
	5,300.00	90.00	178.38	4,365.00	-1,180.44	33.36	1,180.92	0.00	0.00	0.00
	5,400.00	90.00	178.38	4,365.00	-1,280.40	36.18	1,280.92	0.00	0.00	0.00
	5,500.00 5,600.00	90.00 90.00	178.38 178.38	4,365.00 4,365.00	-1,380.36 -1,480.32	39.01 41.83	1,380.92 1,480.92	0.00 0.00	0.00 0.00	0.00 0.00
	5,700.00	90.00	178.38	4,365.00	-1, 4 60.32 -1,580.28	44.66	1,580.92	0.00	0.00	0.00
	5,800.00	90.00	178.38	4,365.00	-1,680.24	47.48	1,680.92	0.00	0.00	0.00
	5,900.00	90.00	178.38	4,365.00	-1,780.20	50.31	1,780.92	0.00	0.00	0.00
	6,000.00	90.00	178.38	4,365.00	-1,880.17	53.13	1,880.92	0.00	0.00	0.00
	6,100.00	90.00	178.38	4,365.00	-1,980.13	55.96	1,980.92	0.00	0.00	0.00
	6,200.00	90.00	178.38	4,365.00	-2,080.09	58.78	2,080.92	0.00	0.00	0.00
	6,300.00	90.00	178.38	4,365.00	-2,180.05	61.61	2,180.92	0.00	0.00	0.00
	6,400.00	90.00	178.38	4,365.00	-2,280.01	64.43	2,280.92	0.00	0.00	0.00
	6,500.00 6,600.00	90.00 90.00	178.38 178.38	4,365.00 4,365.00	-2,379.97 -2,479.93	67.26 70.08	2,380.92 2,480.92	0.00 0.00	0.00 0.00	0.00 0.00
	6,700.00	90.00	178.38	4,365.00	-2,579.89	72.91	2,580.92	0.00	0.00	0.00
	6,800.00	90.00	178.38	4,365.00	-2,679.85	75.73	2,680.92	0.00	0.00	0.00
	6,900.00	90.00	178.38	4,365.00	-2,779.81	78.56	2,780.92	0.00	0.00	0.00
	7,000.00 7,100.00	90.00 90.00	178.38 178.38	4,365.00 4,365.00	-2,879.77 -2,979.73	81.38 84.21	2,880.92 2,980.92	0.00 0.00	0.00 0.00	0.00 0.00
	7,100.00	90.00	178.38	4,365.00	-3,079.69	87.03	3,080.92	0.00	0.00	0.00
	7,300.00	90.00	178.38	4,365.00	-3,179.65	89.86	3.180.92	0.00	0.00	0.00
	7,400.00	90.00	178.38	4,365.00	-3,279.61	92.68	3,280.92	0.00	0.00	0.00
	7,500.00	90.00	178.38	4,365.00	-3,379.57	95.51	3,380.92	0.00	0.00	0.00
	7,600.00 7,700.00	90.00 90.00	178.38 178.38	4,365.00 4.365.00	-3,479.53 -3,579.49	98.33 101.16	3,480.92 3,580.92	0.00 0.00	0.00 0.00	0.00 0.00
				,	•					
	7,800.00 7,900.00	90.00 90.00	178.38 178.38	4,365.00	-3,679.45	103.98	3,680.92 3,780.92	0.00	0.00 0.00	0.00
	8,000.00	90.00	178.38	4,365.00 4,365.00	-3,779.41 -3,879.37	106.81 109.63	3,880.92	0.00 0.00	0.00	0.00 0.00
	8,100.00	90.00	178.38	4,365.00	-3,979.33	112.46	3,980.92	0.00	0.00	0.00
	8,200.00	90.00	178.38	4,365.00	-4,079.29	115.28	4,080.92	0.00	0.00	0.00
	8,300.00	90.00	178.38	4,365.00	-4,179.25	118.11	4,180.92	0.00	0.00	0.00
	8,400.00	90.00	178.38	4,365.00	-4,279.21	120.93	4,280.92	0.00	0.00	0.00
	8,500.00	90.00	178.38	4,365.00	-4,379.17	123.76	4,380.92	0.00	0.00	0.00
	8,600.00 8,700.00	90.00 90.00	178.38 178.38	4,365.00 4,365.00	-4,479.13 -4,579.09	126.58 129.41	4,480.92 4,580.92	0.00 0.00	0.00 0.00	0.00 0.00
	8,800.00	90.00	178.38	4,365.00	-4,679.05	132.23	4,680.92	0.00	0.00	0.00
	8,878.16	90.00	178.38	4,365.00	-4,757.18	134.44	4,759.08	0.00	0.00	0.00
	TD at 8878.16	6 - PBHL_MU 92	1-30O4D-CMHZ	Z(6 FSL 171 FEL)					



SDIPlanning Report



Database: Company: EDM5000-RobertS-Local

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

 Project:
 UTAH - UTM (feet), NA

 Site:
 MU 921-30B PAD

 Well:
 MU 921-3004D-CMHZ

Wellbore:

Design: PLAN #1 PRELIMINARY

ОН

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well MU 921-30O4D-CMHZ

GL 4853 & KB 19 @ 4872.00ft (ASSUMED) GL 4853 & KB 19 @ 4872.00ft (ASSUMED)

True

Minimum Curvature

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL_MU 921-30O4D-(- plan hits target cent - Point	0.00 er	0.00	4,365.00	-4,757.18	134.44	14,529,090.26	2,035,204.30	39.9997910	-109.5903670

Casing Points						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
	2,818.00 4,692.04	2,818.00 4,365.00		9.625 7.000	12.250 7.500	

Formations							
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	1,593.00	1,593.00	GREEN RIVER				
	1,864.00	1,864.00	BIRDSNEST				
	2,368.00	2,368.00	MAHOGANY				
	4,584.84	4,355.00	GREEN RIVER LOWER				

Plan Annotations				
Measured	Measured Vertical		dinates	
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	Comment
3,792.04	3,792.04	0.00	0.00	Start Build 10.00
4,692.04	4,365.00	-572.73	16.19	Start 4186.12 hold at 4692.04 MD
8,878.16	4,365.00	-4,757.18	134.44	TD at 8878.16

1 of 5

MU 921-19B1B-CMHZ/ 921-19B1B-UBHZ/ 921-19B2A-CMHZ/ 921-19B2A-UBHZ MU 921-30O3D-CMHZ/ 921-30O3d-UBHZ/ 921-30O4D-CMHZ/ 921-30O4D-UBHZ Kerr-McGee Oil Gas Onshore, L.P.

Kerr-McGee Oil & Gas Onshore, L.P.

MU 921-30B PAD

<u>API #</u>	MU 921-19B1B-CMHZ					
;	Surface:	395 FNL / 1713 FEL	NWNE	Section 30		
	BHL:	2 FNL / 1756 FEL	NWNE	Section 19		
API#	N	/IU 921-19B1B-UBHZ				
	Surface:	413 FNL / 1730 FEL	NWNE	Section 30		
	BHL:	2 FNL / 1756 FEL	NWNE	Section 19		
API#	N	ЛU 921-19B2A-СМНZ				
	Surface:		NWNE	Section 30		
	BHL:	2 FNL / 2414 FEL	NWNE	Section 19		
API #	N	/IU 921-19B2A-UBHZ				
	<u>."</u> Surface:		NWNE	Section 30		
	BHL:	2 FNL / 2414 FEL	NWNE	Section 19		
<u>API #</u>	N	MU 921-30O3D-CMHZ				
!	Surface:	556 FNL / 1871 FEL	NWNE	Section 30		
	BHL:	9 FSL / 2372 FEL	SWSE	Section 30		
<u>API #</u>	N	MU 921-30O3D-UBHZ				
	Surface:	573 FNL / 1888 FEL	NWNE	Section 30		
	BHL:	9 FSL / 2372 FEL	SWSE	Section 30		
API#	MU 921-30O4D-CMHZ					
	Surface:	520 FNL / 1836 FEL	NWNE	Section 30		
	BHL:	6 FSL / 1714 FEL	SWSE	Section 30		
API #	N	/IU 921-30O4D-UBHZ				
	<u>.''</u> Surface:	538 FNL / 1853 FEL	NWNE	Section 30		
	Surrace: BHL:		SWSE	Section 30		
	DITL.	013L/1/14TLL	JVVJL	3 c cii0i1 30		

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

MU 921-19B1B-CMHZ/ 921-19B1B-UBHZ/ 921-19B2A-CMHZ/ 921-19B2A-UBHZ MU 921-30O3D-CMHZ/ 921-30O3d-UBHZ/ 921-30O4D-CMHZ/ 921-30O4D-UBHZ Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 2 of 5

An on-site meeting was held on October 23, 2012. Present were:

- · Dave Gordon, Tyler Cox, Melissa Wardle BLM;
- · Mitch Batty Timberline Engineering & Land Surveying, Inc.; and
- Randy Townley, Casey McKee, Cara Mahler, Danielle Piernot, Justin Brady, Rod Anderson and Charles Chase, - Kerr-McGee
- Scott Carson Smiling Lake
- · John Mills J.C. Construction

A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Topo B for existing roads.

B. New or Reconstructed Access Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The following segments are "on-lease"

±210' (0.04 miles) – Section 30 T9S R21E (NW/4 NE/4) – On-lease UTU0581, from the edge of pad northeast to the existing road. Please refer to Topo B.

C. Location of Existing Wells:

Please refer to Topo C for exiting wells.

D. Location of Existing and/or Proposed Facilities:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

This pad will expand the existing pad for the NBU 178, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on January 10, 2013. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

GAS GATHERING

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The total gas gathering pipeline distance from the meter to the tie in point is ± 980 ' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±980' (0.19 miles) – Section 30 T9S R21E (NW/4 NE/4) – On-lease UTU0581, Tribal surface, New 6" buried gas gathering pipeline from the meter to the proposed 16" gas pipeline. Please refer to Topo D2 - Pad and Pipeline Detail.

Kerr-McGee Oil Gas Onshore, L.P.

MU 921-19B1B-CMHZ/ 921-19B1B-UBHZ/ 921-19B2A-CMHZ/ 921-19B2A-UBHZ MU 921-30O3D-CMHZ/ 921-30O3d-UBHZ/ 921-30O4D-CMHZ/ 921-30O4D-UBHZ

Surface Use Plan of Operations 3 of 5

LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 980^{\circ}$ and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

±980' (0.19 miles) – Section 30 T9S R21E (NW/4 NE/4) – On-lease UTU0581, Tribal surface, New 6" buried liquid gathering pipeline from the separator to the proposed 6" pipeline. Please refer to Topo D2 - Pad and Pipeline Detail.

Pipeline Gathering Construction

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Exhibit C for ACTS Lines

E. Location and Types of Water Supply:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Water will be hauled to location over the roads marked on Maps A and B.

F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

G. Methods for Handling Waste:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Materials Management

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

RECEIVED: March 08, 2013

MU 921-19B1B-CMHZ/ 921-19B1B-UBHZ/ 921-19B2A-CMHZ/ 921-19B2A-UBHZ MU 921-30O3D-CMHZ/ 921-30O3d-UBHZ/ 921-30O4D-CMHZ/ 921-30O4D-UBHZ Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations 4 of 5

Interim Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Measures Common to Interim and Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Weed Control

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Monitoring

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

K. Surface/Mineral Ownership:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

L. Other Information:

Cultural and Paleontological Resources

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Resource Reports:

A Class I literature survey was completed on November 7, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 12-283.

A paleontological reconnaissance survey was completed on October 5, 2012 by SWCA Environmental Consultants. For additional details please refer to report UT12-14314-186.

Biological field survey was completed on October 16, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-851.

Proposed Action Annual Emissions Tables:

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Surface Use Plan of Operations 5 of 5

MU 921-19B1B-CMHZ/ 921-19B1B-UBHZ/ 921-19B2A-CMHZ/ 921-19B2A-UBHZ MU 921-30O3D-CMHZ/ 921-30O3d-UBHZ/ 921-30O4D-CMHZ/ 921-30O4D-UBHZ Kerr-McGee Oil Gas Onshore, L.P.

M. Lessee's or Operators' Representative & Certification:

Danielle Piernot Regulatory Analyst II Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6156 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

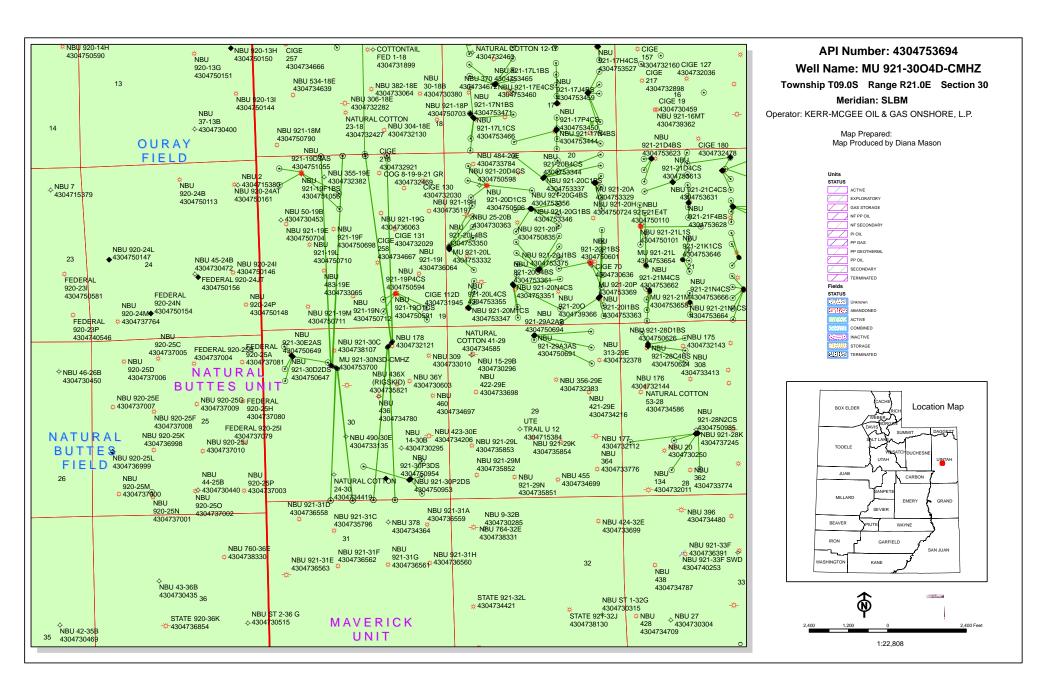
Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Danielle Piernot

January 15, 2013

Date



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

March 18, 2013

Memorandum

To: Assistant Field Office Manager Minerals

Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Maverick Unit,

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Maverick Unit, Uintah County, Utah.

API # WELL NAME LOCATION

(Proposed PZ GREEN RIVER)

MU 921-30C PAD

43-047-53685 MU 921-19C2A-CMHZ Sec 30 T09S R21E 1080 FNL 2084 FWL Lateral 1 Sec 19 T09S R21E 0007 FNL 1973 FWL 43-047-53699 MU 921-19C2A-UBHZ Sec 30 T09S R21E 1068 FNL 2062 FWL Lateral 1 Sec 19 T09S R21E 0007 FNL 1973 FWL 43-047-53700 MU 921-30N3D-CMHZ Sec 30 T09S R21E 1167 FNL 2236 FWL Lateral 1 Sec 30 T09S R21E 0016 FSL 1965 FWL 43-047-53686 MU 921-30N3D-UBHZ Sec 30 T09S R21E 1155 FNL 2214 FWL Lateral 1 Sec 30 T09S R21E 0016 FSL 1965 FWL 43-047-53698 MU 921-30N4D-CMHZ Sec 30 T09S R21E 1192 FNL 2279 FWL Lateral 1 Sec 30 T09S R21E 0012 FSL 2642 FWL 43-047-53687 MU 921-30N4D-UBHZ Sec 30 T09S R21E 1180 FNL 2257 FWL Lateral 1 Sec 30 T09S R21E 0012 FSL 2642 FWL 43-047-53688 MU 921-19C1A-CMHZ Sec 30 T09S R21E 1105 FNL 2127 FWL Lateral 1 Sec 19 T09S R21E 0002 FNL 2631 FWL 43-047-53697 MU 921-19C1A-UBHZ Sec 30 T09S R21E 1093 FNL 2105 FWL Lateral 1 Sec 19 T09S R21E 0002 FNL 2631 FWL

RECEIVED: March 19, 2013

API Well Number: 43047536940000

Page 2

API # WELL NAME LOCATION

(Proposed PZ GREEN RIVER)

MU 921-308 PAD

43-047-53689 MU 921-19B1B-UBHZ Sec 30 T09S R21E 0413 FNL 1730 FEL
Lateral 1 Sec 19 T09S R21E 0002 FNL 1756 FEL

43-047-53690 MU 921-19B2A-CMHZ Sec 30 T09S R21E 0431 FNL 1748 FEL
Lateral 1 Sec 19 T09S R21E 0002 FNL 2414 FEL

43-047-53691 MU 921-19B2A-UBHZ Sec 30 T09S R21E 0449 FNL 1765 FEL
Lateral 1 Sec 19 T09S R21E 0002 FNL 2414 FEL

43-047-53692 MU 921-3003D-CMHZ Sec 30 T09S R21E 0002 FNL 2414 FEL

43-047-53693 MU 921-3003D-CMHZ Sec 30 T09S R21E 0556 FNL 1871 FEL
Lateral 1 Sec 30 T09S R21E 0009 FSL 2372 FEL

43-047-53694 MU 921-3004D-CMHZ Sec 30 T09S R21E 0520 FNL 1836 FEL Lateral 1 Sec 30 T09S R21E 0006 FSL 1714 FEL

43-047-53695 MU 921-3004D-UBHZ Sec 30 T09S R21E 0538 FNL 1853 FEL Lateral 1 Sec 30 T09S R21E 0006 FSL 1714 FEL

This office has no objection to permitting the wells at this time.

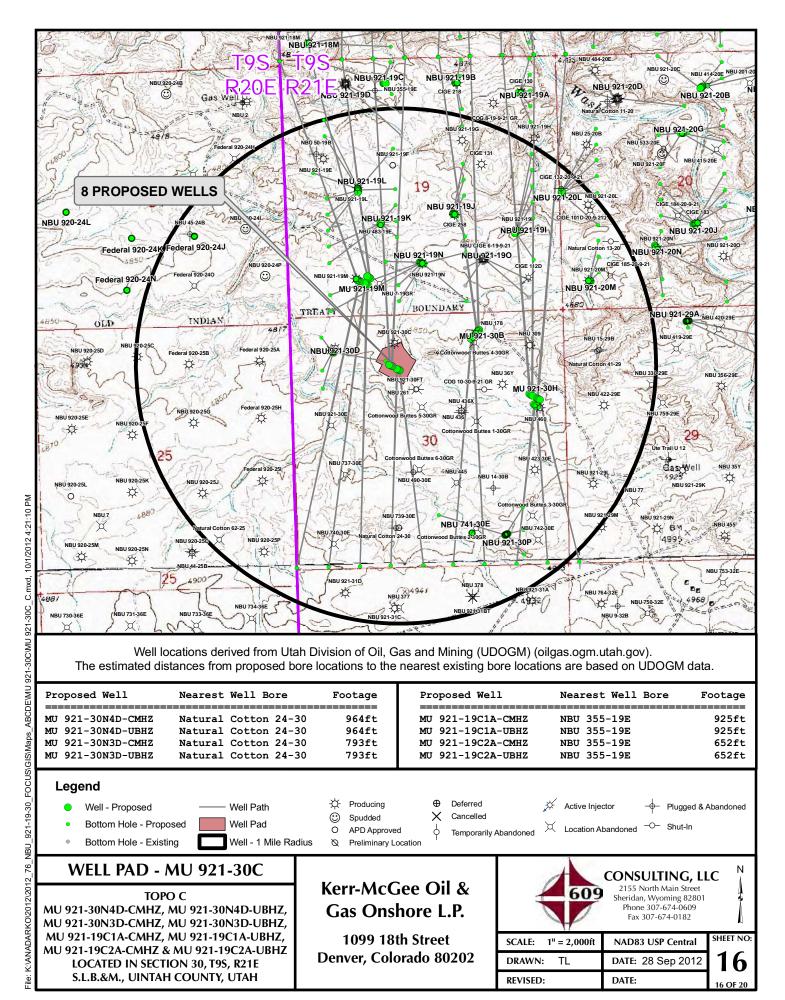
Michael L. Coulthard DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, mail—Michael C. Coulthard(b), output Management, ou=Branch of Minerals, mail—Michael Coulthard(b), pox, c=US Date: 2013.03.18 10:41:20-06'00'

bcc: File - Maverick Unit

Division of Oil Gas and Mining

Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:3-18-13



oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-19C2A-CMHZ Project: \Site: |

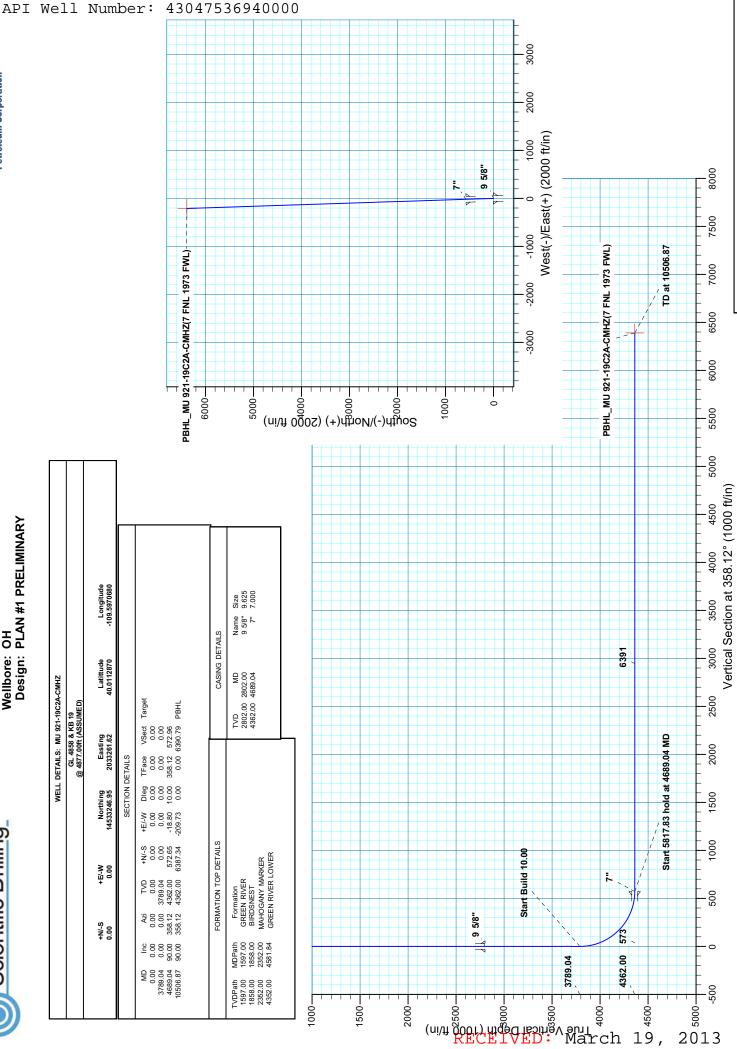
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Anadarko Petroleum Corporation

Wellbore: OH

Design: PLAN #1 PRELIMINARY

WELL DETAILS: MU 921-19C2A-CMHZ





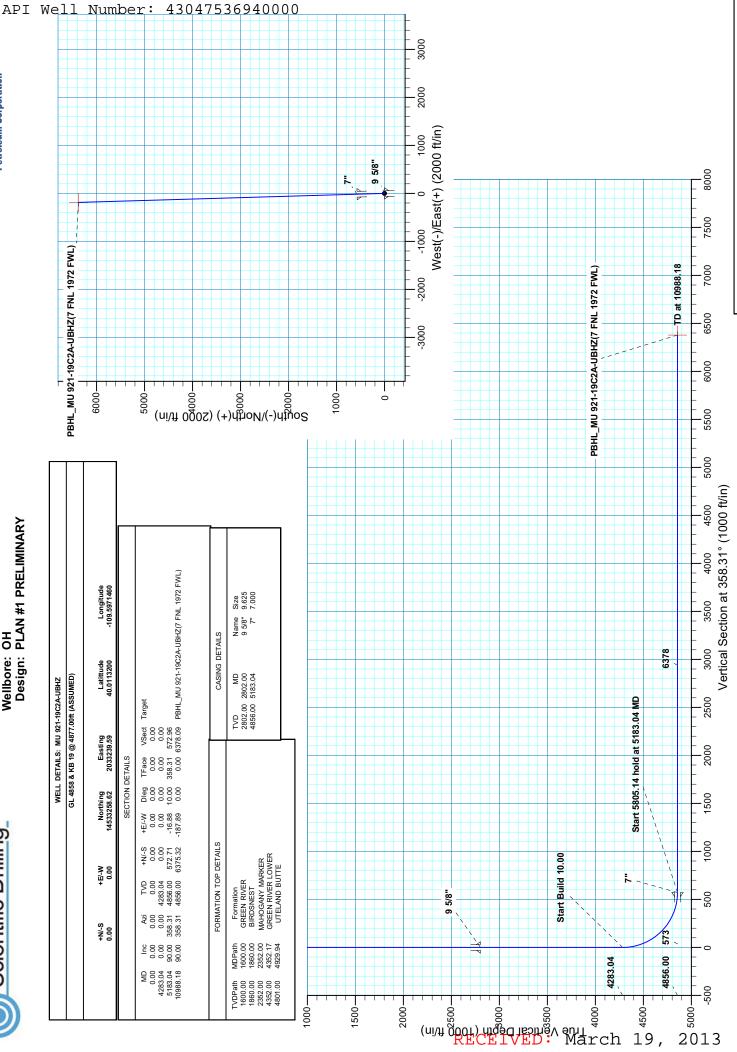
oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-19C2A-UBHZ Project:

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Wellbore:

Design: PLAN #1 PRELIMINARY







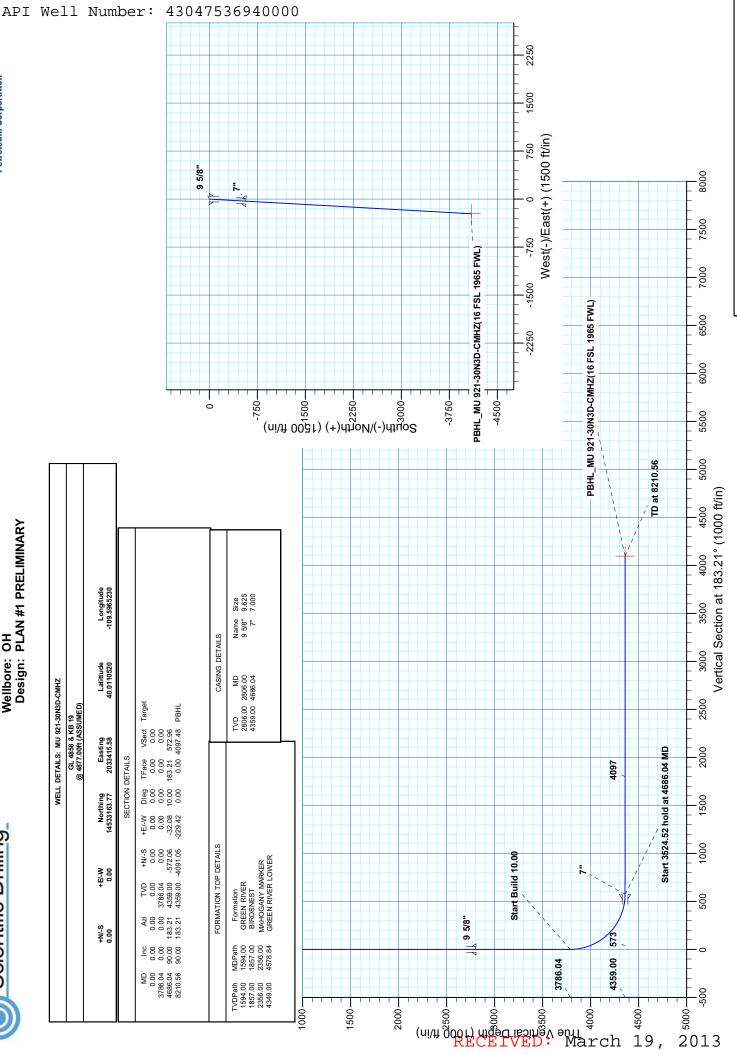
oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-30N3D-CMHZ Project: 1 Site: I

Я Wellbore:

Design: PLAN #1 PRELIMINARY

WELL DETAILS: MU 921-30N3D-CMHZ







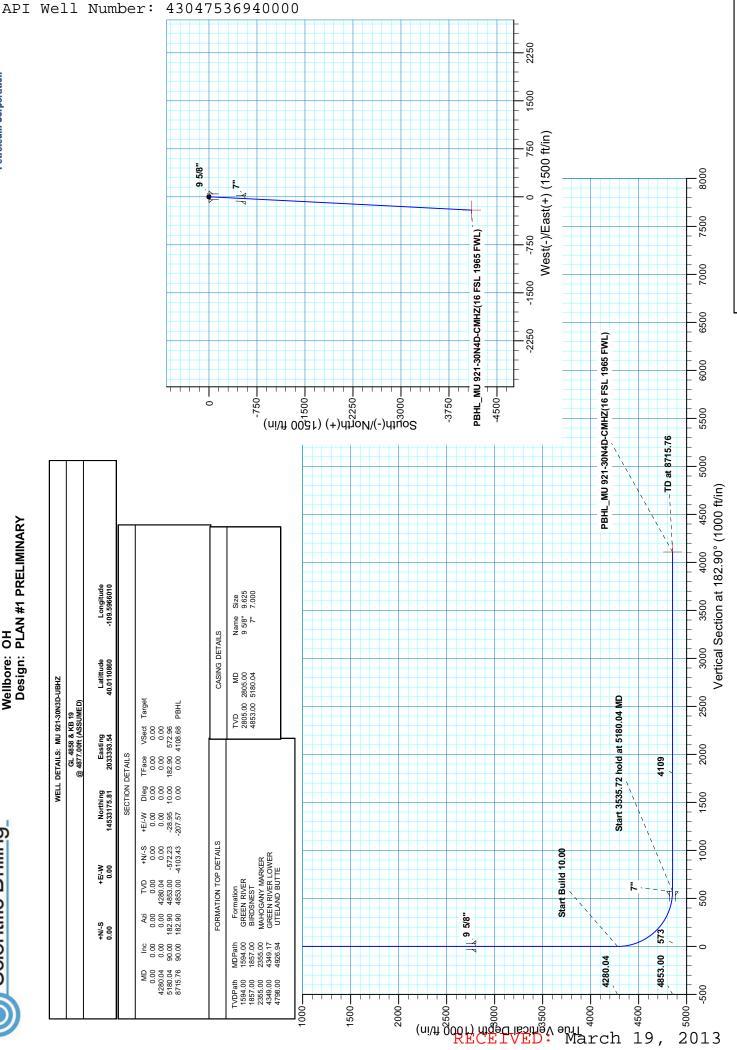
oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-30N3D-UBHZ Project: 1 Site: I

ᆼ Wellbore:

Design: PLAN #1 PRELIMINARY

WELL DETAILS: MU 921-30N3D-UBHZ







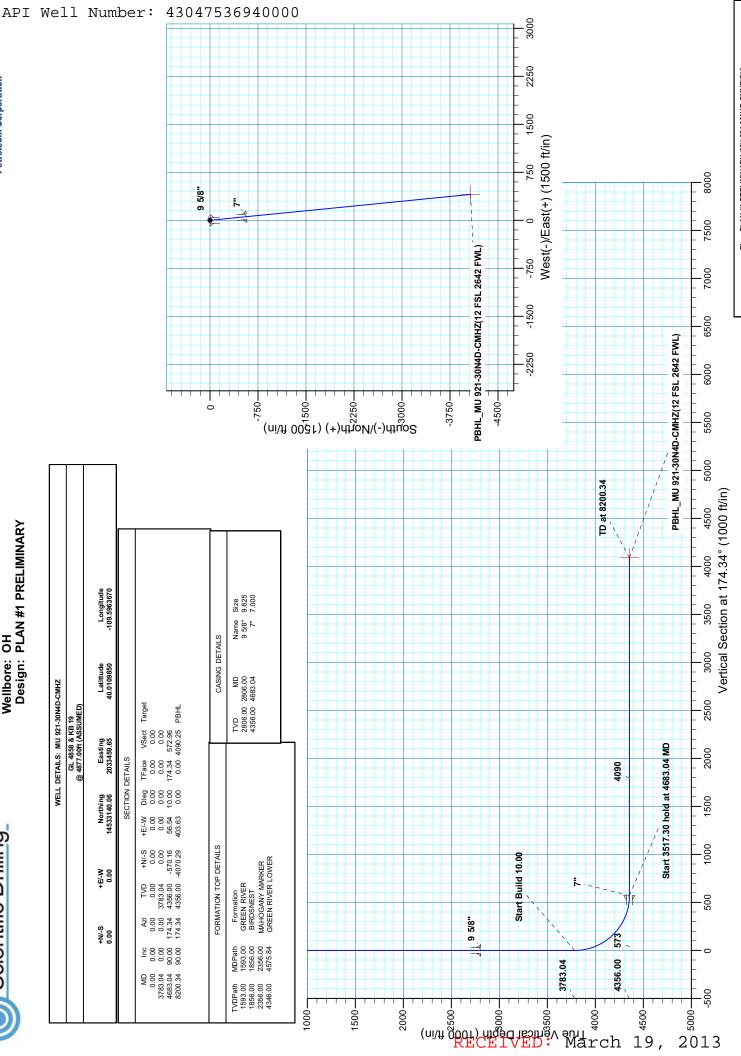
oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-30N4D-CMHZ Project:

#IK

Anadarko Petroleum Corporation

Ы Wellbore:

Design: PLAN #1 PRELIMINARY



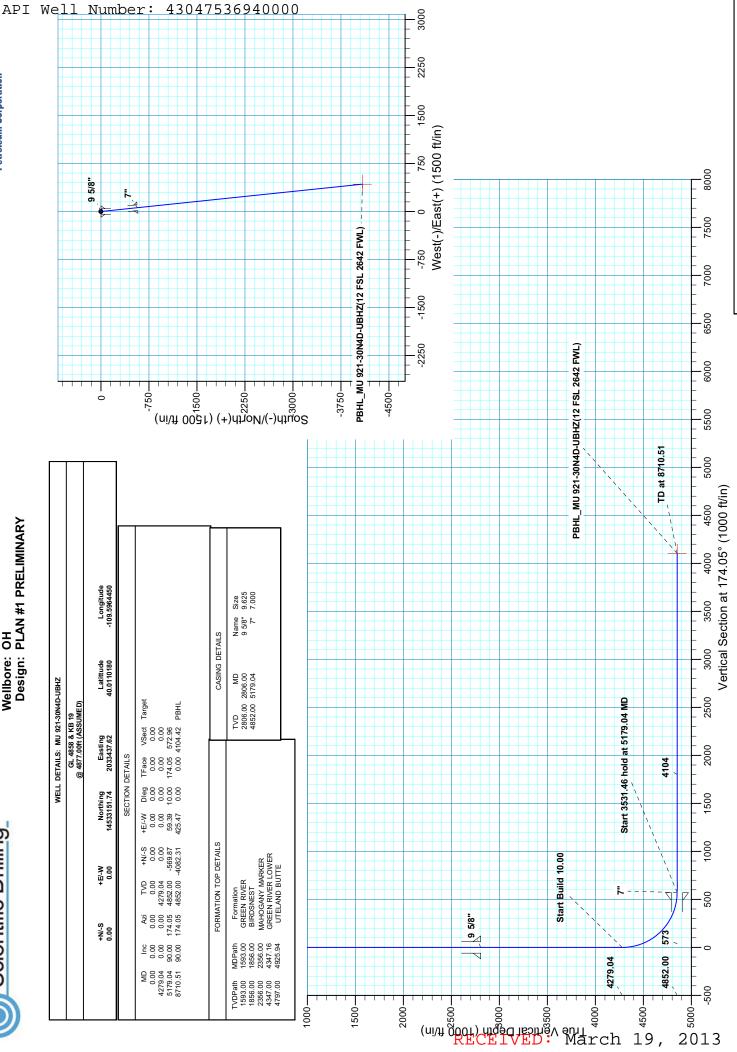


oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-30N4D-UBHZ Project:

Ы Wellbore:

Design: PLAN #1 PRELIMINARY







Project: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30C PAD Well: MU 921-19C1A-CMHZ

Well: MU 921-19C1A-CMH: Wellbore: OH

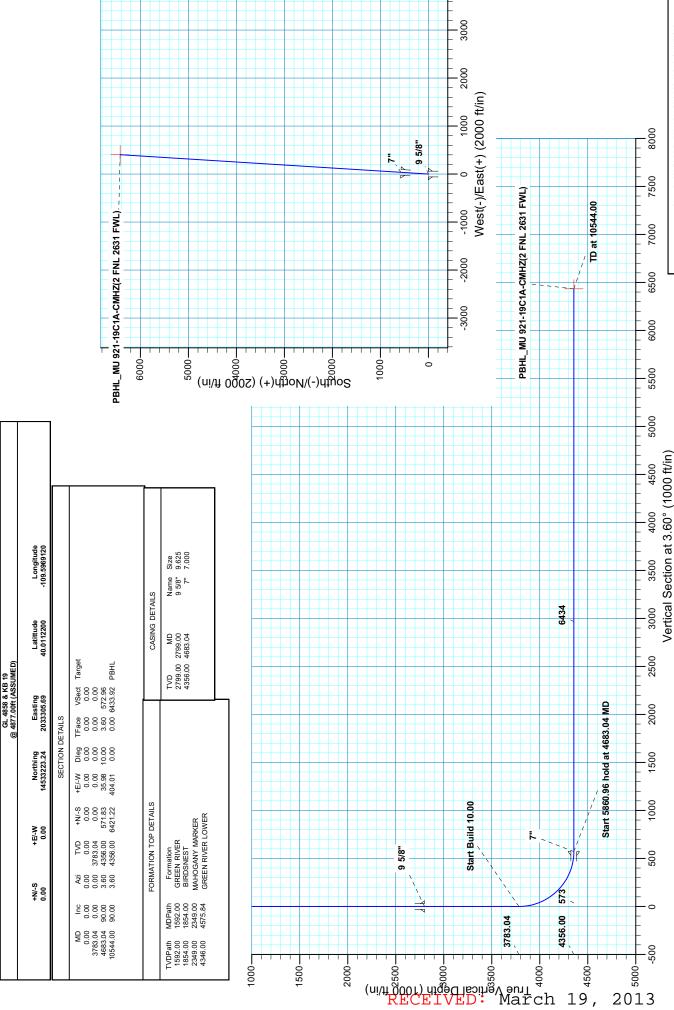
Design: PLAN #1 PRELIMINARY

WELL DETAILS: MU 921-19C1A-CMHZ



API Well Number:

43047536940000



4000



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+N/-S 0.00 0.00 571.70 6409.20

TVD 0.00 4282.04 4855.00 4855.00

Azi 0.00 3.80 3.80

MD Inc 0.00 0.00 4282.04 0.00 5182.04 90.00 11032.42 90.00

FORMATION TOP DETAILS

Formation
GREEN RIVER
BIRDSNEST
MAHOGANY MARKER
GREEN RIVER LOWER
UTELAND BUTTE

MDPath 1596.00 1858.00 2353.00 4351.17 4928.94

TVDPath 1596.00 1858.00 2353.00 4351.00 4800.00

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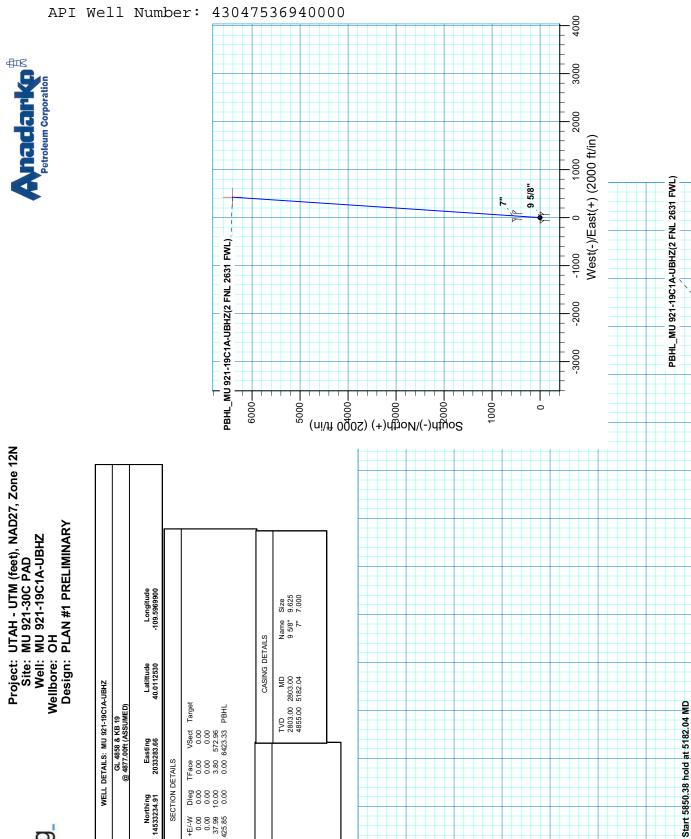
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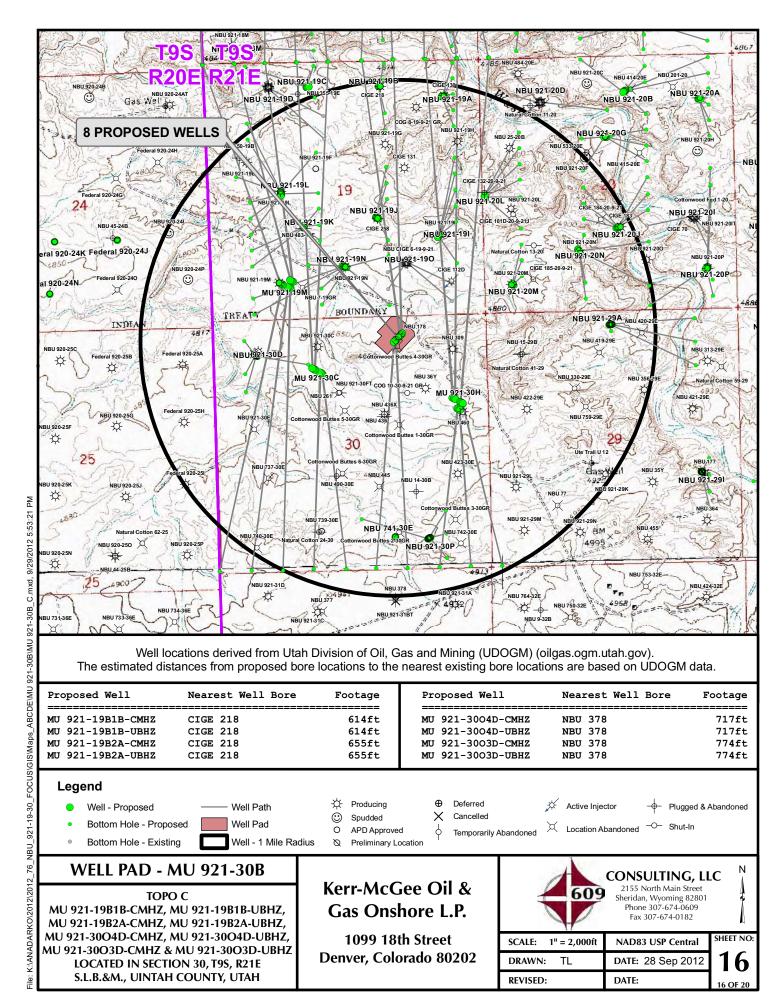
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4855.00

Vertical Section at 3.80° (1000 ft/in)

TD at 11032.42



oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30B PAD Well: MU 921-19B1B-UBHZ Project: \Site: |

Wellbore: OH

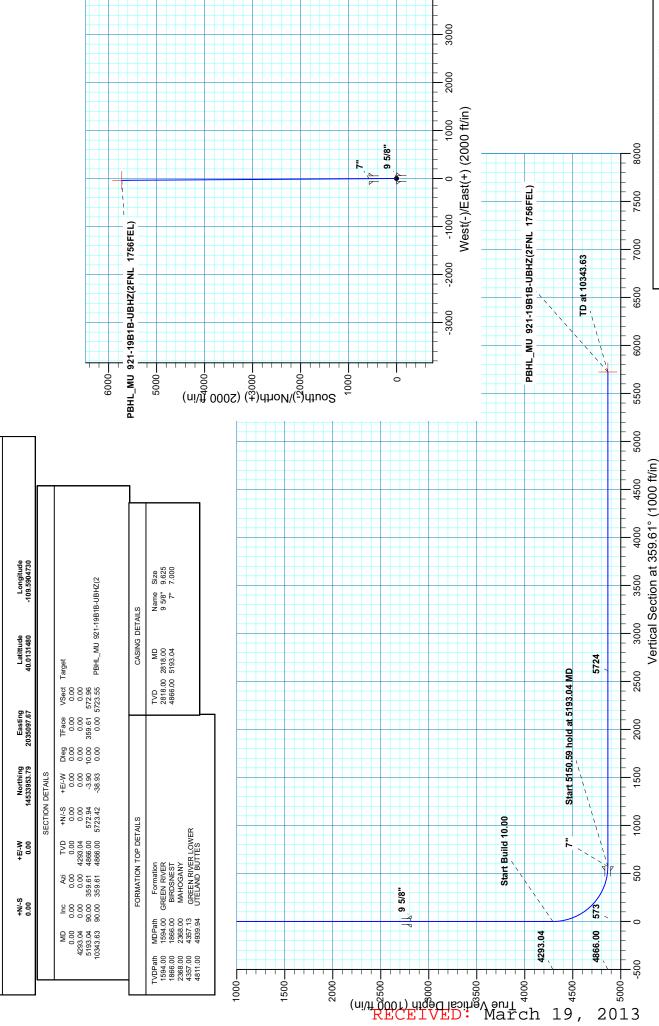
Design: PLAN#1 PRELIMINARY

GL 4853 & KB 19 @ 4872.00ft (ASSUMED) WELL DETAILS: MU 921-19B1B-UBHZ



API Well Number:

43047536940000



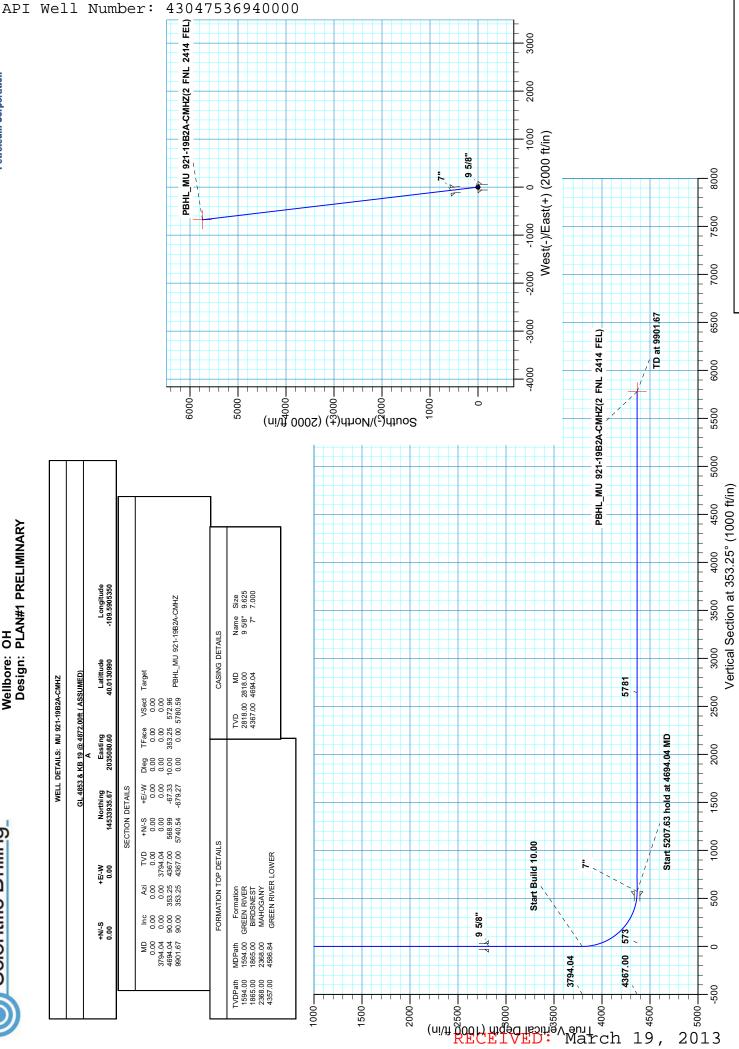


oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30B PAD Well: MU 921-19B2A-CMHZ Ibore: OH Project: U Site: I

Wellbore:

Design: PLAN#1 PRELIMINARY







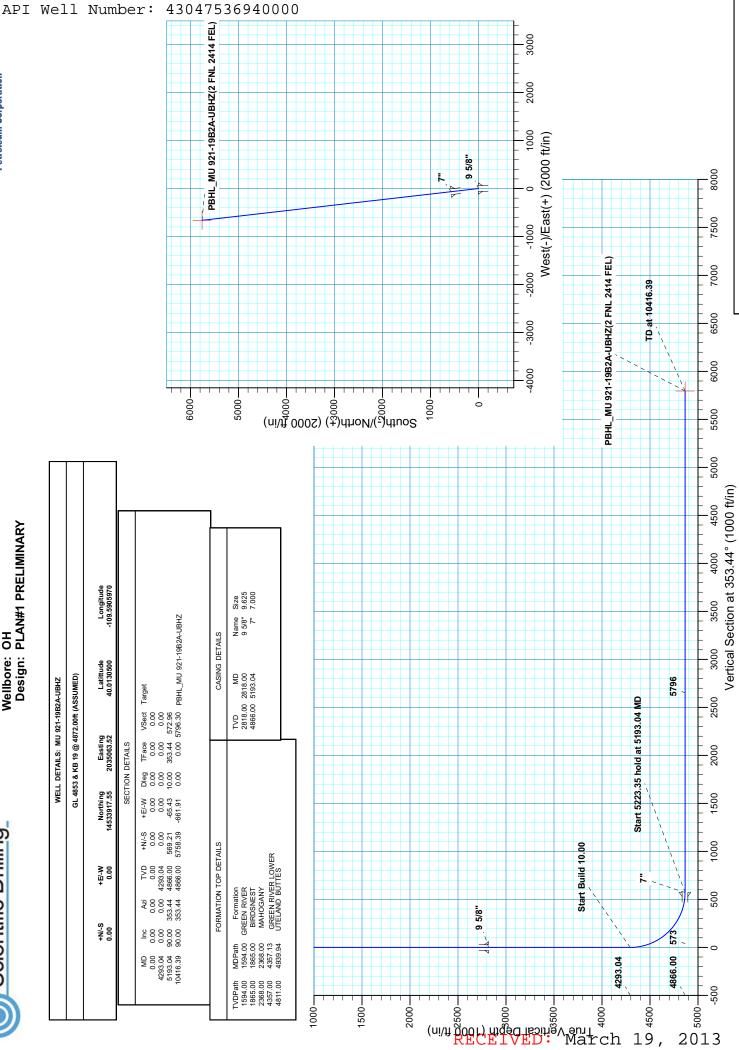
oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30B PAD Well: MU 921-19B2A-UBHZ Project: \Site: \

ᆼ Wellbore:

Design: PLAN#1 PRELIMINARY

WELL DETAILS: MU 921-19B2A-UBHZ





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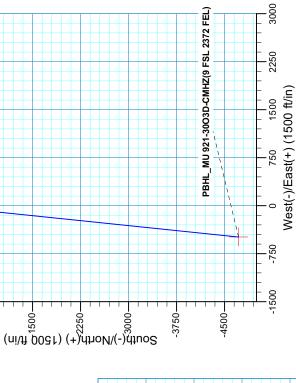
-750—

Anadarka Retroleum Corporation

Project: UTAH - UTM (feet), NAD27, Zone Site: MU 921-30B PAD Well: MU 921-30O3D-CMHZ Wellbore: OH Design: PLAN #1 PRELIMINARY

Scientific Drilling

						(ui/# 00G1) (+)
WELL DETAILS: MU 921-3003D-CMHZ	GL 4853 & KB 19 @ 4872.00ft (ASSUMED)	ng Latiftude Longitude 20 40.0127560 -109.5909720		Face VSect Target 0.00 0.00 0.00 0.00 35.91 572.96 0.004743.40 PBHL_MU 921-30O3D-CMHZ(9 FSL 2372 FEL)	CASING DETAILS	TVD MD Name Size 2818.002818.00 9 5/8" 9.625 4364.00691.04 7" 7.000
WELL DETAILS: MI	GL 4853 & KB 19 @ .	+N/-S +E/-W Northing Easting 0.00 0.00 14533808.83 2034960.20	SECTION DETAILS	MD Inc Azi TVD +N/-S +E/-W Dleg TFace VSect 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	FORMATION TOP DETAILS	TVDPath MDPath Formation 1593.00 1533.00 GREEN RIVER 1883.00 1883.00 BIRDSNEST 2368.00 3368.00 MAHOGANY 4354.00 4583.84 GREEN RIVER LOWER



Start Build 10.00

3791.04

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(ui)ii door) yidaa jesinay anii RECETVED: March

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1500—

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oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30B PAD Well: MU 921-3003D-UBHZ Project: 1 Site: I

ᆼ Wellbore:

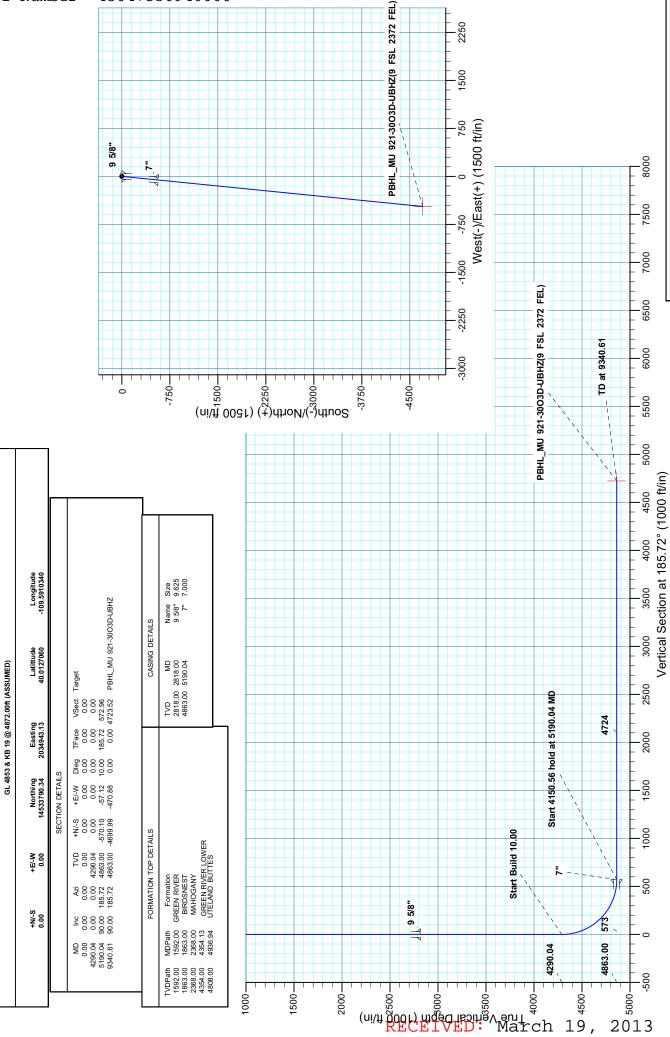
Design: PLAN#1 PRELIMINARY

WELL DETAILS: MU 921-3003D-UBHZ



API Well Number:

43047536940000





oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30B PAD Well: MU 921-3004D-CMHZ Project: \Site: |

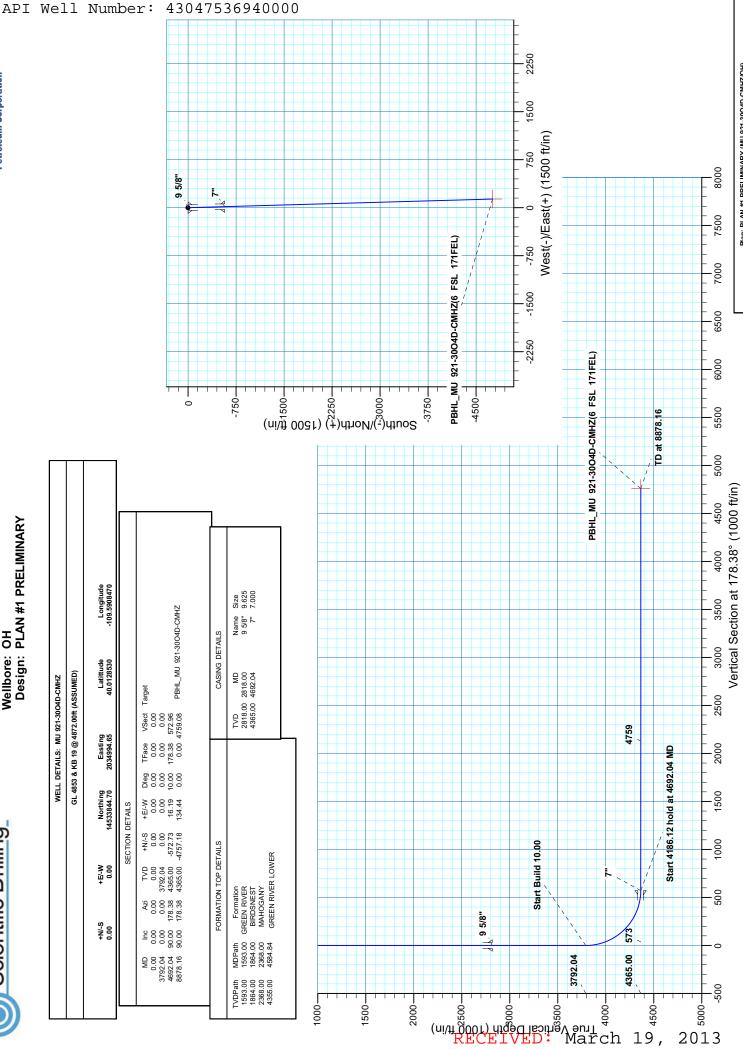
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Anadarko Petroleum Corporation

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Design: PLAN #1 PRELIMINARY Wellbore:

WELL DETAILS: MU 921-3004D-CMHZ





oject: UTAH - UTM (feet), NAD27, Zone 12N Site: MU 921-30B PAD Well: MU 921-3004D-UBHZ Project: \Site: |

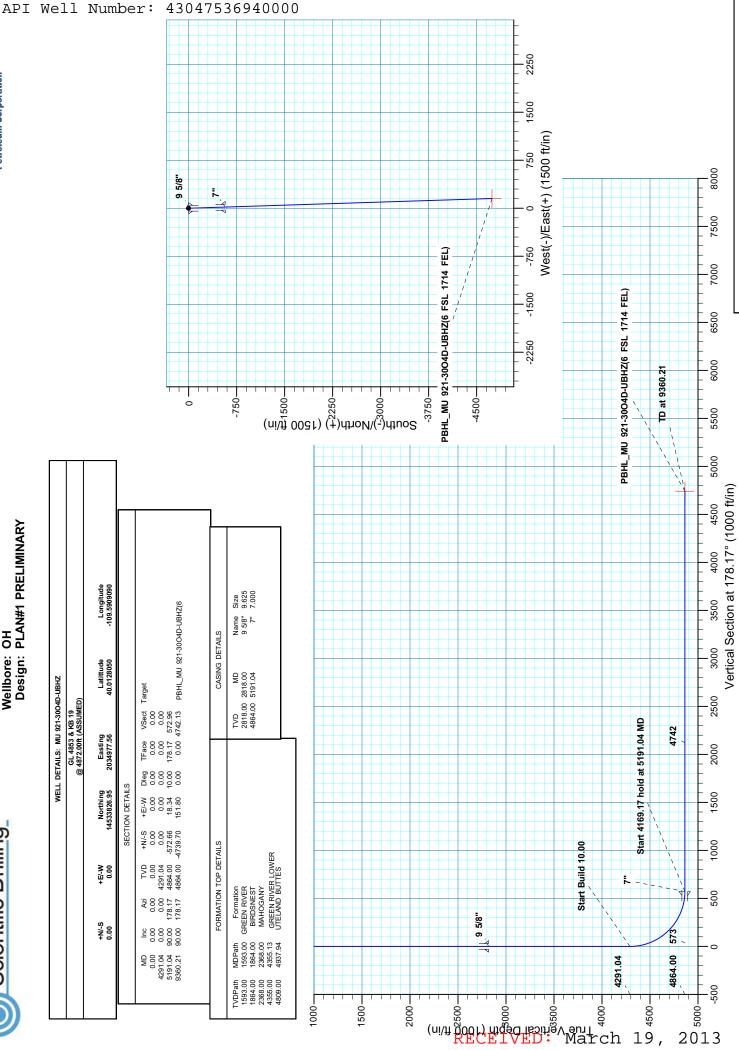
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Anadarko Petroleum Corporation

ᆼ Wellbore:

Design: PLAN#1 PRELIMINARY

WELL DETAILS: MU 921-3004D-UBHZ



API Well Number: 43047536940000

WORKSHEET APPLICATION FOR PERMIT TO DRILL

/	0,10,2010	711 1 1101 71001011221	100 11 0000 10000
WELL NAME:	MU 921-30O4D-CMHZ		

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6029

CONTACT: Cara Mahler

APD RECEIVED: 3/13/2013

PROPOSED LOCATION: NWNE 30 090S 210E **Permit Tech Review:**

> **SURFACE: 0520 FNL 1836 FEL Engineering Review:**

> **BOTTOM:** 0006 FSL 1714 FEL Geology Review:

COUNTY: UINTAH

LATITUDE: 40.01272 LONGITUDE: -109.59140 UTM SURF EASTINGS: 620218.00 NORTHINGS: 4430119.00

FIELD NAME: NATURAL BUTTES LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU0581 PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 1 - Federal **COALBED METHANE: NO**

RECEIVED AND/OR REVIEWED: LOCATION AND SITING: ✓ PLAT R649-2-3. Unit: MAVERICK Bond: FEDERAL - WYB000291 **Potash** R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception **Drilling Unit** Oil Shale 190-13 Board Cause No: Cause 197-13 Water Permit: 43-8496 Effective Date: 8/21/2012 **RDCC Review:** Siting: Suspends General Siting Fee Surface Agreement Intent to Commingle R649-3-11. Directional Drill **Commingling Approved**

Comments: Presite Completed

4 - Federal Approval - dmason 17 - Oil Shale 190-5(b) - dmason Stipulations:

27 - Other - bhill

API NO ASSIGNED: 43047536940000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: MU 921-3004D-CMHZ

API Well Number: 43047536940000

Lease Number: UTU0581 Surface Owner: FEDERAL Approval Date: 3/20/2013

Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 197-13. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

In accordance with Utah Admin. R.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available) OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- \bullet Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas Form 3160-3 (August 2007)

RECEIVED

JAN 1 8 2013

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

Lease Serial No.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	TO DRILL BLEMER Verna	U UG 681		
APPLICATION FOR PERMIT	TO DRILL GENERATIER V CITIO	6. If Indian, Allottee or Tribe N	ame	
1a. Type of Work: 🛛 DRILL 🗖 REENTER		7. If Unit or CA Agreement, Na UTU88574X	me and No.	
		8. Lease Name and Well No. MU 921-3004D-CMHZ		
1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Ot 2. Name of Operator Contact.	ther Single Zone Multiple Zone			
KERR MCGEE OIL & GAS ONSHORE		9 API Well No. 43 - 047 - 53	694	
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (include area code) Ph: 720-929-6029 Fx: 720-929-7029	10. Field and Pool, or Explorato NATURAL BUTTES	ory (
4. Location of Well (Report location clearly and in accorded	ance with any State requirements.*)	11. Sec., T., R., M., or Blk. and	Survey or Area	
	40.012818 N Lat, 109.591537 W Lon	Sec 30 T9S R21E Mer S SME: BLM	SLB	
At proposed prod. zone SWSE 6FSL 1714FEL 40.				
 Distance in miles and direction from nearest town or post 46.4 MILES FROM VERNAL UTAH 	office*	12. County or Parish UINTAH	13. State UT	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)	16. No. of Acres in Lease	17. Spacing Unit dedicated to th	is well	
6'	2399.60			
18. Distance from proposed location to nearest well, drilling,	19. Proposed Depth	20. BLM/BIA Bond No. on file		
completed, applied for, on this lease, ft. 717'	8878 MD 4365 TVD	WYB000291		
21. Elevations (Show whether DF, KB, RT, GL, etc. 4853 GL	22. Approximate date work will start 07/07/2013			
	24. Attachments			
The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1, shall be attached to t	his form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Of 	Item 20 above). Sem Lands, the Some of the seminary of the se	ns unless covered by an existing bo		
25. Signature (Electronic Submission)	Name (Printed/Typed) CARA MAHLER Ph: 720-929-6029		ate 01/15/2013	
Title REGULATORY ANALYST			·	
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczk	a D	YUG 2 1 2013	
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE			
Application approval does not warrant or certify the applicant ho		ase which would entitle the applican	nt to conduct	
operations thereon. Conditions of approval, if any, are attached.	DITIONS OF APPROVAL ATTACHED		·	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r States any false, fictitious or fraudulent statements or representat	nake it a crime for any person knowingly and willfully to ions as to any matter within its jurisdiction.		of the United	
Additional Operator Remarks (see next page)		AIG	3 0 2013	

AUG 3 U 2013

Electronic Submission #183401 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by JOHNETTA MAGEE on 01/25/2013 (13JM0175AE)

NOTICE OF APPROVAL



Additional Operator Remarks:

The following wells are also on the MU 921-30B Pad:

MU 921-19B1B-CMHZ MU 921-19B1B-UBHZ MU 921-19B2A-CMHZ MU 921-19B2A-UBHZ MU 921-30O3D-CMHZ MU 921-30O3D-UBHZ MU 921-30O4D-CMHZ MU 921-30O4D-UBHZ

The filing fee for this well will be hand delivered or sent via overnight UPS delivery.

Please contact Cara Mahler at 720-929-6029, or via email at cara.mahler@anadarko.com with any questions, comments or concerns regarding this application.

Form 3160-3 (August 2007)

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 1 8 2013

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

BUREAU OF LAND		JAN 10 CON	5. Lease Serial No. UTU0581		
APPLICATION FOR PERMIT	TO DRILL OR R	EENTBLM	6. If Indian, Allottee or Tri	be Name	
1a. Type of Work: 🗷 DRILL 🔲 REENTER			7. If Unit or CA Agreemen UTU88574X	t, Name and No.	
1b. Type of Well:		ngle Zone	8. Lease Name and Well N MU 921-3004D-CMH2	o. 7	
KERR MCGEE OIL & GAS ONSHOREAL; cara.m	: CARA MAHLER ahler@anadarko.com		9. API Well No.		
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078	3b. Phone No. (included) Ph: 720-929-602 Fx: 720-929-702	29	10. Field and Pool, or Explo NATURAL BUTTES	oratory	
4. Location of Well (Report location clearly and in accord	ance with any State requ	iirements.*)	11. Sec., T., R., M., or Blk.	and Survey or Area	
At surface NWNE 520FNL 1836FEL At proposed prod. zone NWNE 6FSL 1714FEL 40.			Sec 30 T9S R21E M SME: BLM	ler SLB	
		591537 VV Lon			
14. Distance in miles and direction from nearest town or post 46.4 MILES FROM VERNAL UTAH	office*		12. County or Parish UINTAH	13. State UT	
 Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 6' 	17. Spacing Unit dedicated to this well				
18. Distance from proposed location to nearest well, drilling, 19. Proposed Depth			20. BLM/BIA Bond No. on file		
completed, applied for, on this lease, ft. 717'	8878 MD 4365 TVD		WYB000291		
21. Elevations (Show whether DF, KB, RT, GL, etc. 4853 GL	22. Approximate date 07/07/2013	nate date work will start 23. Estimated duration 60-90 DAYS			
	24. Atta	achments			
The following, completed in accordance with the requirements or	f Onshore Oil and Gas C	Order No. 1, shall be attached to the	nis form:		
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Systes SUPO shall be filed with the appropriate Forest Service Off 	em Lands, the ice).	4. Bond to cover the operation Item 20 above). 5. Operator certification 6. Such other site specific info authorized officer.		,	
25. Signature (Printed/Typed) (Electronic Submission) CARA MAHLER Ph: 720-929-6029					
Title REGULATORY ANALYST					
Approved by (Signature)	Name (Printed/Typed)			Date	
Title	Office				
Application approval does not warrant or certify the applicant hole operations thereon. Conditions of approval, if any, are attached.	ls legal or equitable title	to those rights in the subject leas	se which would entitle the appli	cant to conduct	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mutates any false, fictitious or fraudulent statements or representation	ake it a crime for any pe ons as to any matter with	rson knowingly and willfully to rain its jurisdiction.	nake to any department or agen	cy of the United	
dditional Operator Pemarka (ace next next)					

Additional Operator Remarks (see next page)

Electronic Submission #183401 verified by the BLM Well Information System For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal Committed to AFMSS for processing by JOHNETTA MAGEE on 01/25/2013 (13JM0175AE)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Additional Operator Remarks:

The following wells are also on the MU 921-30B Pad:

MU 921-19B1B-CMHZ MU 921-19B1B-UBHZ MU 921-19B2A-CMHZ MU 921-19B2A-UBHZ MU 921-3003D-CMHZ MU 921-3003D-UBHZ MU 921-3004D-CMHZ MU 921-3004D-UBHZ

The filing fee for this well will be hand delivered or sent via overnight UPS delivery.

Please contact Cara Mahler at 720-929-6029, or via email at cara.mahler@anadarko.com with any questions, comments or concerns regarding this application.

Revisions to Operator-Submitted EC Data for APD #183401

Operator Submitted

UTU0581

Agreement:

UTU88574X

Operator:

Lease:

KERR MCGEE OIL & GAS LP

PO BOX 173779 DENVER, CO 80202-3779 Ph: 720-929-6000

CARA MAHLER REGULATORY ANALYST 1099 18TH STREET SUITE 1800 DENVER, CO 80202 Ph: 720-929-6029 Fx: 720-929-7029

E-Mail: cara.mahler@anadarko.com

Tech Contact:

Admin Contact:

CARA MAHLER REGULATORY ANALYST 1099 18TH STREET SUITE 1800

DENVER, CO 80202

Well Name:

Number: 921-30O4D-CMHZ

Location:

State:

County: S/T/R:

UINTAH Sec 30 T9S R21E Mer SLB NWNE 520FNL 1836FEL 40.012818 N Lat, 109.591537 W Lon Surf Loc:

Field/Pool:

Bond:

NATURAL BUTTES

WYB000291 WYB000291

UTU0581

UTU88574X (UTU88574X)

BLM Revised (AFMSS)

KERR MCGEE OIL & GAS ONSHORE L

1368 SOUTH 1200 EAST VERNAL, UT 84078 Ph: 435.789.3995

CARA MAHLER REGULATORY ANALYST 1368 SOUTH 1200 EAST VERNAL, UT 84078 Ph: 720-929-6029

Fx: 720-929-7029

E-Mail: cara.mahler@anadarko.com

CARA MAHLER

REGULATORY ANALYST 1368 SOUTH 1200 EAST VERNAL, UT 84078

921-3004D-CMHZ

ÜİNTAH

Sec 30 T9S R21E Mer SLB NWNE 520FNL 1836FEL 40.012818 N Lat, 109.591537 W Lon

NATURAL BUTTES



UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT** VERNAL FIELD OFFICE 170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No:

Kerr McGee Oil & Gas Onshore

MU 921-30O4D-CMHZ

43-047-53694 API No:

Location: Lease No: Agreement: **NWNE SEC 30 T9S R21E**

UTU-0581

NATURAL BUTTES

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER:

(435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 8 Well: MU 921-3004D-CHMZ 8/13/2013

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- Mitigation measures can be found in Appendix B, Table B-2, of the GNB ROD (BLM 2012b) under the following sections of the table:
 - Air Quality
 - o Soils
 - o Vegetation: Sclerocactus wetlandicus
 - o Wildlife: Colorado River Fish
- Where populations or individuals of Sclerocactus wetlandicus are located within 300 feet of the proposed edge of project ROWs, the following actions will be taken to minimize impacts:
 - Silt fencing will be used to protect cacti that are within 300 feet and downslope or downwind
 of surface disturbance. Fencing is intended to prevent sedimentation or dust deposition and
 will be evaluated for effectiveness by a qualified botanist.
 - A qualified botanist will be on site to monitor surface-disturbing activities when cacti are within 300 feet of any surface disturbance.
 - Dust abatement (consisting of water only) will occur during construction where plants are closer than 300 feet from surface-disturbing activities.
 - Cacti within 300 feet of proposed surface disturbance will be flagged immediately prior to surface-disturbing activities and flags will be removed immediately after surface-disturbing activities are completed. Leaving cacti flagged for as short a time as possible will minimize drawing attention to the cacti location and reduce potential for theft.
 - Pipelines will be sited to maximize distance from adjacent cacti locations.
 - Project personnel associated with construction activities will be instructed to drive at a speed limit of 15 miles per hour on unpaved roads and remain in existing roadway ROWs at all times.
- For permanent surface pipelines, KMG will adhere to existing cacti survey/buffer guidelines of 300 feet, or amended guidelines if developed by the BLM and USFWS. In areas where avoidance by 300 feet is not feasible and populations or individuals of *Sclerocactus wetlandicus* are within 50 feet of proposed project components, the following actions will be taken to minimize impacts:
 - o Prior to construction, flag individual cactus. Once pipe installation is complete, remove the flagging.
 - o Prior to construction, install protective fencing around the cacti if they are down gradient of the surface pipe. Once pipe installation is complete, remove the protective fencing.
 - o A qualified botanist will be present during construction to monitor surface line installation.
 - o The following considerations are required for those wells where KMG deems completion fluid recycling is appropriate based on new well density and topography:
 - o Temporary lines associated with recycling of completion water will be sited in existing ROWs. The pressure in the lines is less than 50 pounds per square inch and the lines are constructed of rigid aluminum; therefore, virtually no movement will occur during operation.

Page 3 of 8 Well: MU 921-30O4D-CHMZ 8/13/2013

- o If surface water completion lines are placed within the footprint of a road disturbance where vegetation does not grow, *Sclerocactus wetlandicus* surveys will not be necessary.
- o A qualified botanist will survey a 50-foot-wide corridor along roads where temporary lines are planned to ensure *Sclerocactus wetlandicus* is not present.
- o If cacti are present within the 50-foot-wide survey corridor and avoidance is necessary (to ensure the line is more than 50 feet away from identified cactus), the new alignment will, if possible, be such that the cacti are topographically higher than the re-aligned line so a potential spill from the line will not impact the identified cacti.
- o If it is not possible to re-align the surface lines to avoid individuals or populations of the Sclerocactus wetlandicus that are within 50 feet of surface disturbance, the following actions will be taken to minimize impacts:
- o Prior to construction, KMG will flag individual cacti. Once pipe installation is complete, remove the flagging.
- Prior to construction, KMG will install protective fencing around the cacti if they are down gradient of the surface pipe. Once pipe installation is complete, remove the protective fencing.
- o A qualified botanist will be present during construction to monitor surface line installation.
- Avoidance of cactus by 300 feet will take priority in the expansion of pads within the cactus core
 conservation areas. When the 300-foot buffer cannot be avoided in pad expansion, KMG will notify
 the USFWS and work with the BLM to determine pad expansion that places a priority on avoiding
 cactus impacts.
- KMG will follow existing ROWs and/or roads in constructing new buried pipelines within the cactus
 core conservation areas. For instance, where a new buried pipeline is unable to follow an existing
 ROW and/or road and exceeds 600 feet in length, KMG will work with the USFWS and the BLM to
 determine a route that places a priority on avoiding cactus impacts.
- Maintenance activities on pipelines within cactus core conservation areas will avoid impacts to cactus, to the extent possible.
- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.
- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established
- Noxious and invasive weeds will be controlled throughout the area of project disturbance.

Page 4 of 8 Well: MU 921-30O4D-CHMZ 8/13/2013

Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an
integrated pest management program is applicable, coordination has been undertaken with the
state and local management program (if existing). A copy of the pest management plan will be
submitted for each project.

- A pesticide use permit (PUP) will be obtained for the project, if applicable.
- Bird exclusion netting will be installed over reserve pits containing water that are left open for more than 30 days to reduce possibility of exposure to hazardous chemicals (BLM 2012b).
- KMG will install bird-excluding devises that prevent the perching and entry of migratory birds on or into its new fired vessel exhaust stacks (BLM 2012b).
- Tree removal within pinyon-juniper habitat will occur outside of the nesting season for migratory birds (approximately 4/1 to 7/31 (BLM 2012b).
 - 1. Paint facilities "Shadow Gray."
 - 2. Save and segregate the top six (6) inches of soil during well pad construction.
 - 3. Conduct a raptor survey prior to construction operations if such activities will take place during raptor nesting season (January 1 through September 30). If active raptor nests are identified during the survey, operations should be conducted according to the seasonal restrictions detailed in the Uinta Basin-specific RMP guidelines BLM 2008a.
 - 4. If construction and/or drilling operations have not been initiated prior to September 27, 2013, conduct a biological survey to determine the presence of Uinta Basin hookless cactus in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures and the BLM RMP ROD. KMG will implement commitments contained in the GNB BO.
 - 5. Monitor construction activities with a permitted archaeologist.
 - 6. Utilize applicable erosion BMPs to protect fill slopes.
 - 7. Replace pond during initial reclamation.
 - 8. If any blasting is needed during construction activities, the Operator must notify any active Gilsonite operation located within two miles of the location 48 hours prior to the blasting.
- Damage to livestock and livestock facilities will be reported as quickly as possible to the BLM and
 affected livestock operators. Operators will develop and employ prevention measures to avoid
 damaging fences, gates, and cattleguards, including upgrading cattleguard gate widths and loadbearing requirements and fencing all open pits and cellars.
- If partial or complete removal of a fence cannot be avoided, the fence will be braced and tied off per the BLM guidance. Where the fence is crossed by a road, the fence will be braced and a cattleguard and gate installed per BLM guidance.

Page 5 of 8 Well: MU 921-30O4D-CHMZ 8/13/2013

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Cement for the Intermediate casing shall be brought 200 feet above the surface casing shoe.
- A CBL shall be run from TD to TOC in the intermediate casing.
- Cement for the surface casing shall be circulated to the surface.
- Variances shall be granted as requested in Section 9 of the drilling plan.
- A variance is granted for the FIT test requirement.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times.
 Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

Page 6 of 8 Well: MU 921-30O4D-CHMZ 8/13/2013

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - o The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

Page 8 of 8 Well: MU 921-3004D-CHMZ 8/13/2013

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office
 Petroleum Engineers will be provided with a date and time for the initial meter calibration and all
 future meter proving schedules. A copy of the meter calibration reports shall be submitted to the
 BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid
 hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall
 be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering
 lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a
 suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be
 obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 47643 API Well Number: 43047536940000

	STATE OF UTAH		FORM 9
ı	CES NING	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0581	
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon n for such proposals.		7.UNIT or CA AGREEMENT NAME: MAVERICK
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: MU 921-3004D-CMHZ
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047536940000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 8021	PHONE NUMBER: 7 3779 720 929-0	9. FIELD and POOL or WILDCAT: 1NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0520 FNL 1836 FEL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 30 Township: 09.0S Range: 21.0E Meri	idian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
Kerr-McGee Oil & G an extension to this	CHANGE WELL STATUS CHANGE WELL STATUS DEEPEN OPERATOR CHANGE PRODUCTION START OR RESUME REPERFORATE CURRENT FORMATION TUBING REPAIR WATER SHUTOFF WILDCAT WELL DETERMINATION COMPLETED OPERATIONS. Clearly show as Onshore, L.P. (Kerr-McGAPD for the maximum time with any questions and/or completed to the complete state of the comple	ee) respectfully requests allowed. Please contact	CASING REPAIR CHANGE WELL NAME CONVERT WELL TYPE NEW CONSTRUCTION PLUG BACK RECOMPLETE DIFFERENT FORMATION TEMPORARY ABANDON WATER DISPOSAL ✓ APD EXTENSION OTHER: Depths, volumes, etc. Approved by the Utah Division of Oil, Gas and Mining Date: February 12, 2014 By:
NAME (PLEASE PRINT) Teena Paulo	PHONE NUME 720 929-6236	Staff Regulatory Specialist	
SIGNATURE N/A		DATE 2/7/2014	

Sundry Number: 47643 API Well Number: 43047536940000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047536940000

API: 43047536940000 Well Name: MU 921-30O4D-CMHZ

Location: 0520 FNL 1836 FEL QTR NWNE SEC 30 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 3/20/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
 Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? (Yes (No
• Has the approved source of water for drilling changed? Yes No
• Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No
nature: Teena Paulo Date: 2/7/2014

Sig

Title: Staff Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Sundry Number: 60669 API Well Number: 43047536940000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCE		FORM 9		
	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0581				
SUNDF	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.		7.UNIT or CA AGREEMENT NAME: MAVERICK		
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: MU 921-30O4D-CMHZ		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047536940000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18t	h Street, Suite 600, Denver, CO, 80217	PHONE NUMBER: 73779 720 929-	9. FIELD and POOL or WILDCAT: 1NATERAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0520 FNL 1836 FEL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNS	HIP, RANGE, MERIDIAN: 30 Township: 09.0S Range: 21.0E Merio	dian: S	STATE: UTAH		
11. CHEC	K APPROPRIATE BOXES TO INDICAT	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
7	ACIDIZE	ALTER CASING	CASING REPAIR		
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
2/6/2015	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION		
Date of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION		
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:		
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a	all pertinent details including dates.	depths. volumes. etc.		
Kerr-McGee Oil & (Gas Onshore L.P. respectfully the maximum time allowed.	y requests an extension	Approved by the URebr Davis 09, 2015		
undersigned wi	th any questions and/or com	nments. Thank you.	Oil, Gas and Mining		
			Date:		
			By: Laggill		
NAME (PLEASE PRINT)	PHONE NUMB				
Joel Malefyt	720 929-6828	Regualtory Analyst			
SIGNATURE N/A		DATE 2/6/2015			

Sundry Number: 60669 API Well Number: 43047536940000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047536940000

API: 43047536940000 Well Name: MU 921-30O4D-CMHZ

Location: 0520 FNL 1836 FEL QTR NWNE SEC 30 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 3/20/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

owing is a checklist of some items related to the application, which should be verified.
• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
• Has there been any unit or other agreements put in place that could affect the permitting or operation of thi proposed well? Yes No
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? (Yes (No
• Has the approved source of water for drilling changed? Yes No
• Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? Yes No
nature: Joel Malefyt Date: 2/6/2015

Sig

Title: Regualtory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Form 3160-5 (August 2007)

RECLIVEY

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

MAY 1 9 2015

FORM APPROVED

C)MB	NO.	100)4-i	013	3:
Ε	xpire	s: Ju	lly 3	31,	20	1
Comol	NIa					

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter posabandoned well. Use form 3160-3 (APD) for such proposals						J0581 dian, Allottee o	or Tribe N	Vame	
SUBMIT IN TRI		7. If Ui UTl	nit or CA/Agre J88574X	ement, N	ame and/or No.				
1. Type of Well			Name and No. 921-3004D-0			_			
Oil Well Gas Well Oth Name of Operator			Well No.						
	2. Name of Operator Contact: JENNIFER KERR-MCGEE OIL & GAS ONSHORELMail: JENNIFER.THOMAS@A					047-53694			
3a. Address P.O. BOX 173779 1099 18TH DENVER, CO 80217	P.O. BOX 173779 1099 18TH STREET STE 600 Ph: 720-9				10. Fie NA	ld and Pool, or FURAL BUT	Explorate TES	ory	
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description	1)			11. Cou	unty or Parish,	and State		
Sec 30 T9S R21E Mer SLB N	WNE 520FNL 1836FEL				UIN	TAH COUN	TY, UT		
12. CHECK APPI	ROPRIATE BOX(ES) TO	O INDICATI	E NATURE OF	NOTICE, RE	PORT,	OR OTHE	R DAT.	Α .	
TYPE OF SUBMISSION			ТҮРЕ О	F ACTION					
Notice of Intent ■	☐ Acidize	□ Dee	pen	☐ Producti	on (Star	t/Resume)	□ Wa	ater Shut-Off	-
	☐ Alter Casing	☐ Fra	cture Treat	☐ Reclama	tion		□ We	ell Integrity	
☐ Subsequent Report	□ Casing Repair	☐ Nev	v Construction	ion 🔲 Recomplete			☑ Otl		
☐ Final Abandonment Notice	☐ Change Plans		g and Abandon	☐ Tempora	☐ Temporarily Aba		bandon Change to Origin		١.
	☐ Convert to Injection	☐ Plu	ug Back Water Disposal						
If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final At determined that the site is ready for fi Kerr-McGee Oil & Gas Onsho extension to this APD for the r	rk will be performed or provide operations. If the operation repandonment Notices shall be filinal inspection.) re, L.P. (Kerr-McGee) responsible to the provided of the prov	the Bond No. of suits in a multipled only after all spectfully requires contact	n file with BLM/BL le completion or rec requirements, include Lests an	A. Required sub ompletion in a n	sequent r	eports shall be al, a Form 316 en completed, a	filed with 0-4 shall and the op	nin 30 days be filed once perator has	
undersigned with any question	ns and/or comments. Tha	nk you.		•		ENG.	14 6	14/15	
APR- 8/21/13 NEPA- 2013-165 K	EB-					GEOL			
NEPH - 2013-169 K			RECEIVE	D		E.S	1		
						PET.			
CONDITIONS OF APPR	ON/AL ATTACHED		JUN 1 5 2015						
COMBINIONS OF AFFF	OVAL AI IAUNED	DIV	OF OIL, GAS 8	& MINING		RECL			
14. I hereby certify that the foregoing is	Electronic Submission #	302204 verifie	d by the BLM We	Il Information	System		-Control - Control - Contr		
	For KERR-MCGE Committed to AFMSS for	r processing i	y JOHNETTA MA	AGEE on 05/21	/2015 ()				
Name (Printed/Typed) JENNIFEF					CIALIS	<u>T</u>			
Signature (Electronic S	ubmission)		Date 05/19/2	015					
	THIS SPACE FO	OR FEDERA							_
Approved By				istant Field s & Mineral			E	JUN 05 2	01
Conditions of approval, it any, are attached certify that the approval that the approval to the which would entitle the applicant to condu	 Approval of this notice does itable title to those rights in the ct operations thereon. 	not warrant or subject lease	Office VER	RAL FIEL	D CFI	FACE			

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONDITIONS OF APPROVAL

Kerr McGee Oil and Gas Onshore LP.

Notice of Intent APD Extension

Lease:

UTU-0581

Well:

MU 921-30O4D-CMHZ

Location: NWNE Sec 30-T9S-R21E

An extension for the referenced APD is granted with the following conditions:

- 1. The extension and APD shall expire on 08/21/2017.
- 2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

Sundry Number: 70093 API Well Number: 43047536940000

	STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES		FORM 9		
ι	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU0581				
SUNDR	RY NOTICES AND REPORTS OF	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	posals to drill new wells, significantly de reenter plugged wells, or to drill horizonta n for such proposals.		7.UNIT or CA AGREEMENT NAME: MAVERICK		
1. TYPE OF WELL Oil Well			8. WELL NAME and NUMBER: MU 921-3004D-CMHZ		
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	ISHORE, L.P.		9. API NUMBER: 43047536940000		
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th	PI n Street, Suite 600, Denver, CO, 80217 3	HONE NUMBER: 779 720 929-6	9. FIELD and POOL or WILDCAT: 5NXTURAL BUTTES		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0520 FNL 1836 FEL			COUNTY: UINTAH		
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 30 Township: 09.0S Range: 21.0E Meridia	n: S	STATE: UTAH		
11. CHECH	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
/	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT Approximate date work will start: 2/26/2016	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
2/20/2010	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION		
Bate of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
☐ DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION		
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:		
12 DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show all	nertinent details including dates	denths volumes etc		
Kerr-McGee Oil & G an extension to this	as Onshore, L.P. (Kerr-McGee APD for the maximum time all with any questions and/or con) respectfully requests lowed. Please contact	Approved by the Utebruaris 29, 2016 Oil, Gas and Mining		
			Date:		
			By: Lacyll		
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE			
Jennifer Thomas	720 929-6808	Regulatory Specialist			
SIGNATURE N/A		DATE 2/26/2016			

Sundry Number: 70093 API Well Number: 43047536940000



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047536940000

API: 43047536940000 **Well Name:** MU 921-3004D-CMHZ

Location: 0520 FNL 1836 FEL QTR NWNE SEC 30 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 3/20/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

9
• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
 Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
 Has there been any unit or other agreements put in place that could affect the permitting or operation of thi proposed well? Yes No
 Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
• Has the approved source of water for drilling changed? 🔵 Yes 📵 No
 Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
• Is bonding still in place, which covers this proposed well? 📵 Yes 🔵 No
Signature: Jennifer Thomas Date: 2/26/2016
Title: Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Feb. 26, 2016